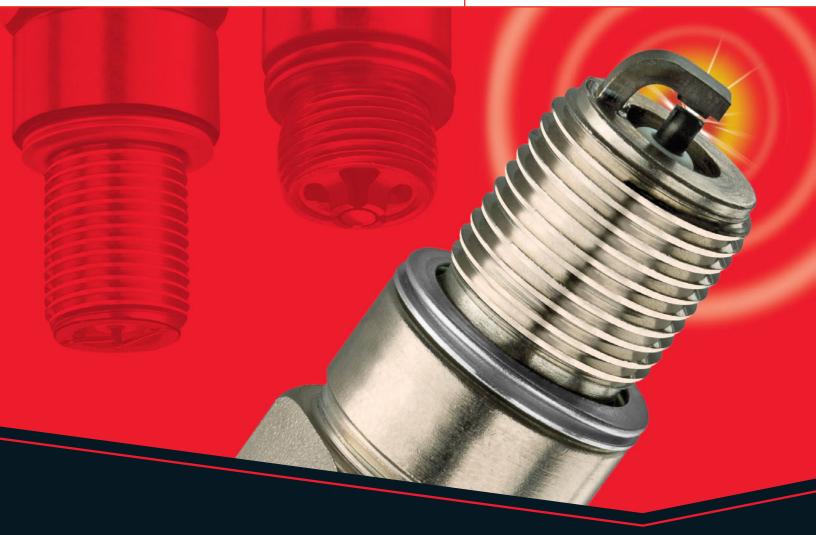


Industrial Spark Plug
Application Catalog

2012



PERFORMANCE DRIVEN[™]



Industrial Power



GENERAL INFORMATION

| B Series Plugs | II |
|----------------|-----|
| M Series Plugs | IV |
| N Series Plugs | VI |
| C Series Plugs | VII |
| Plug Type | . X |

INDUSTRIAL APPLICATIONS

| Commercial, Stationary and Gas Engine Applications | .1 |
|---|----|
| Commercial, Stationary and Gas Engine Applications - 5/8" - 24 Shielded | 24 |

INDUSTRIAL TECHNICAL INFORMATION

| Industrial Spark Plug Gaps |
|--|
| Heat Range Chart |
| Replacements For Discontinued Spark Plugs |
| Cross Reference Chart |
| Military Shielded Resistor Types |
| Spark Plug Installation |
| Corona vs. Flashover |
| Connector Well Flashover / Contamination |
| The Spark Plug's Relation To The Ignition System |
| Factors Affecting Voltage Requirements |
| Factors Affecting Spark Plug Temperatures |
| Heat Range Facts |
| Effect Of Fuel On Spark Plug Selection |
| Shielded Extensions, non-Shielded Extensions, Gaskets and Terminal Nut |
| Integral Coil Features |
| Shielded Extensions Features and Installation |
| Spark Plug Analysis |







18mm



13/16"

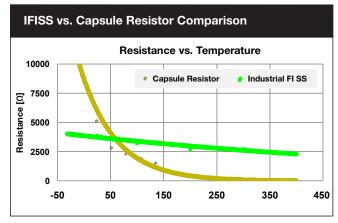


7/8"

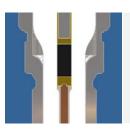


Solutions Driven by Performance.

| B-Series Category Overview | |
|----------------------------|---|
| Champion® Iridium | FB77WPCC KB77WPCC RB77WPCC RB77WPC |
| Champion Platinum | RB75PP RB76PP |
| Champion Integral Coil | RTB77WPCC |
| Champion Copper | RB77CC RB77N RB75N KB75N RB76N |

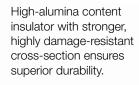


IFISS offers tight resistance control across the entire temperature operating window, magnitudes improvement vs. capsule resistor



Specifically designed for industrial applications, IFISS is a fired in suppressor seal, which significantly improves both resistance and suppression capability over the life of the plug.





IFISS technology engineered specifically for demanding, high-temperature/high-load applications requiring consistent resistance throughout the plug's service life.





Hot-Lock Nickel Plated Shell Seal dramatically increases strength, rigidity and resistance to lift.

WPCC



Champion® Iridium spark surface for improved resistance to wear. Advanced rectangular bar design provides improved ignitability and longer life.

PP



CC



N







18mm



1/2"



7/8"



| M-Series Category Overview | |
|----------------------------|--|
| Champion® Iridium | RM82WPCC |
| Champion Platinum | RM77PP |
| Champion Shielded | RHM78WPCC RHM78PP RHM83N RHM77N RHM78N REM84P REM77N |
| Champion Integral Coil | RTM82WPCC RTM77PP RTM79N RTM77N RTM78N RGM86N |
| Champion Copper | RM77N RM85G |

Advanced Laser Welding Process





Super Modulated Continuous Wave (SMCW) Laser Benefits

- Consistent/uniform weld penetration and coverage
- Improved bi-metal alloying through improved heat/energy control
- Multi-configuration compatible (precious metal)
- Fully automated
- Weld parameter/input flexibility









14mm



3/4"

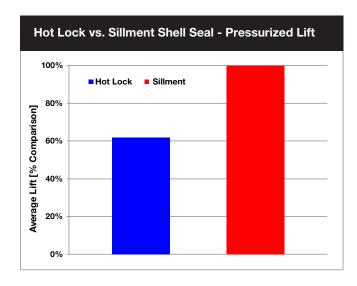


13/16"



Powered by Double Fine Wire Technology.

| N-Series Category Overview | |
|----------------------------|---------|
| Champion Platinum | RN79PYP |
| Champion Gold/Palladium | RN79G |
| Champion Shielded | RHN79G |
| Champion Integral Coil | RTN79G |



- At 55MPa applied pressure, the new hot-lock design shows a 40% reduction in core lift due to increased shell rigidity and pre-assembled load.
- Increased rigidity and pre-assembled load also provides a more consistent, evenly distributed, and higher compression load at the lower shell seat, resulting in improved sealing against combustion gases.





SERIES



14mm



3/4"

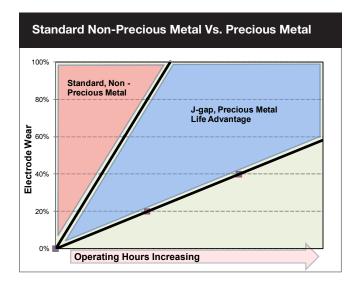


5/8'



Full Product Offerings for Transit Solutions.

| C-Series Category Overview | |
|----------------------------|--------------|
| Champion® Iridium | RC78WYP |
| | RC78WP |
| | |
| Champion Platinum | RC78PYP |
| | |
| Champion Shielded | EP3RCWYP15-1 |
| | EP8RCWYP15-2 |
| Champion Copper | RC78YCC |
| | |



Non-Precious Metal vs. Precious Metal spark plug has a direct effect on the life and maintenance schedule of your engine. Precious Metal plugs provide significantly longer required life between service intervals improving efficiency by reducing the amount of plug service stops to maintain the engine.



Hot-Lock Nickel Plated Shell Seal dramatically increases strength, rigidity and resistance to lift.





Massive Champion® Iridium center electrode and Platinum ground electrode design provides longer life.

DVI





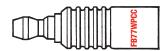


SPECIAL GAP

DESIGNATION Description

Gapped at .015" Gapped at .017"

Gapped at .021" Gapped at .025"







15

17

SUPPRESSOR / SHIELDING

| Letter | Description |
|--------|-------------------------------------|
| E | Shielded 5/8"-24 |
| F | Industrial Resistor |
| Н | Shielded 3/4"-20 |
| K | Resistor (Special Application) |
| M | Shielded 5/8"-24 Ordnance |
| R | Resistor |
| T | 13/16"-20 Thread Abov e Hex agon |
| U | Aux illary Gap |
| Х | Resistor (Special Application) |

| SHELL DESIGN | | | |
|--------------|----------------|---------------|--------------|
| Letter | Thread Size | Reach | Hex |
| В | 18mm | 13/16" | 7/8" |
| C | 14mm | 3/4" | 5/8" |
| D | 18mm | 1/2" | 7/8" |
| GC* | 7/8"-18 | All | 7/8" |
| GM* | 18mm | All | 7/8" |
| Н | 14mm | 7/16" | 13/16" |
| J | 14mm | 3/8" | 13/16" |
| L | 14mm | 1/2" or .472" | 13/16" |
| M | 18mm | 1/2" | 7/8" |
| N | 14mm | 3/4" | 13/16" |
| S | 1-1/8" | 5/8" | 1" |
| W | 7/8"-18 | All | 15/16" or 1" |
| χ | 14mm | 1/2" or .500" | 5/8" |

^{* 1&}quot;-20 Female Connector

HEAT RANGE APPLICATION

| Ref. # | Description |
|--------|---------------------------------------|
| 1-25 | Automotive, Small Engine & Ordance |
| 75-99 | Industrial & Special Applications |

FIRING END DESIGN

| Letter | Description |
|--------|--|
| В | Two Ground Electrodes |
| C | Copper Plus Design |
| D | Protruding Nose, Round Ground Electrode |
| F | Three Ground Electrode |
| G | Fine Wire Semi-Precious Electrode |
| J | Cutback Ground Electrode, Includes Modified Gap |
| N | Four Ground Electrode |
| P | Platinum Electrode |
| R | Push Wire |
| Υ | Standard Projected Core Nose |
| *PP | Double Platinum |
| *PYP | Projected Double Platinum |
| *WP | Iridium/Platinum |
| WPC | Iridium/Platinum/Copper |
| | 1.1. /ml . / |

Includes Copper Plus Design

| Letter | Description |
|--------|--|
| В | Two Ground Electrodes |
| C | Copper Plus Design |
| D | Protruding Nose, Round Ground Electrode |
| F | Three Ground Electrode |
| G | Fine Wire Semi-Precious Electrode |
| J | Cutback Ground Electrode, Includes Modified Gap |
| N | Four Ground Electrode |
| P | Platinum Electrode |
| R | Push Wire |
| Υ | Standard Projected Core Nose |
| *PP | Double Platinum |
| *PYP | Projected Double Platinum |
| *WP | Iridium/Platinum |
| WPC | Iridium/Platinum/Copper |
| WPCC | Iridium/Platinum/ Double Copper |

ANTIPARASITE / BLINDAGE

of the Champion Sales Symbol.

| Lettre | Description |
|--------|--|
| E | Électrode protégée 5/8 po-24 |
| F | Résistances Industrielle |
| Н | Électrode protégée 3/4 po-20 |
| K | Résistance (application spéciale) |
| М | Électrode protégée 5/8 po-24 Matériel militaire |
| R | Résistance |
| T | Hexagone à filetage supérieur 13/16 po-20 |
| U | Éncartement auxiliaire |
| χ | Résistance (application spéciale) |

MODÈLE DE CULOT

The plug type on a spark plug is composed of a basic "Heat Range" number with letters and numbers to indicate major features of the plug design. These charts contain a detailed example

| Lettre | Calibre de filetage | Portée | Hexagon |
|--------|------------------------|--------------------|---------------|
| В | 18mm | 13/16 po | 7/8 po |
| C | 14mm | 3/4 po | 5/8 po |
| D | 18mm | 1/2 po | 7/8 po |
| GC* | 7/8 po-18 | Toutes | 7/8 po |
| GM* | 18mm | Toutes | 7/8 po |
| Н | 14mm | 7/16 po | 13/16 po |
| J | 14mm | 3/8 po | 13/16 po |
| L | 14mm | 1/2 po ou 0,472 po | 13/16 po |
| M | 18mm | 1/2 po | 7/8 po |
| N | 14mm | 3/4 po | 13/16po |
| S | 1-1/8 po | 5/8 po | 1 po |
| W | 7/8 po-18 | Toutes | 15/16 po ou 1 |
| X | 14mm | 1/2 po ou 0,500 po | 5/8 po |

^{*} Raccord femelle 1 po - 20

GAMME THERMIQUE / **APPLICATION**

| Ref. # | Description |
|--------|--|
| 1-25 | Automobiles, petits moteur, matérial militaire |
| 75-99 | Applications indus- trielles et spéciales |

ALLUMAGE ET CONCEPT

| Lettre | Description |
|--------|---|
| В | Deux électrodes de masse |
| C | Concept Copper Plus |
| D | Pointe saillante, électrode de masse ronde |
| F | Trois électrodes de masse |
| G | Fil fin electrode en pierre semi-precíeuse |
| J | Électrode de masse racourcie avec écartement modifié |
| N | Quatre électrodes de masse |
| P | Électrode en platine |
| R | Fil de poussé |
| Υ | Pointe en saillie ordinaire |
| *PP | Double platine |
| *PYP | Pointe en saillie double platine |
| *WP | Iridium/ platine |
| WPC | Iridium/ platine/ cuivre |
| WPCC | Iridium/ platine/ double cuivre |

^{*} Avec concept Copper Plus

DÉSIGNATION D'ÉCARTEMENT SPÉCIAL

| N° | Description |
|----|------------------------|
| 15 | Écartement de 0,015 po |
| 17 | Écartement de 0,017 po |
| | Écartement de 0,021 po |
| 25 | Écartement de 0,025 po |

| Letra | Descripción |
|-------|----------------------------------|
| E | Blindado 5/8" — 24 |
| F | Resistor Industrial |
| Н | Blindado 3/4" — 20 |
| K | Resistor (aplicación especial) |
| M | Blindado 5/8" — 24 armamento |
| | |
| R | Resistor |
| T | Rosca por encima del |
| | hexágono 13/16" — 20 |
| U | Separación entre puntas auxiliar |
| χ | Resistor (aplicación especial) |
| | |

DISEÑO DEL RECUBRIMIENTO

Le symbole de vente figurant sur une bougie se sompose d' un numero de "gamme thermique" de base ainsi que de lettres et de chiffres indiquant les caractéristiques principales du modèle de

bougie. Les tableaux ci-dessus donnent un exemple détaillé d' un symbole de vente Champion.

| Letra | Tamaño de rosca | Distancia | Hex. |
|-------|--------------------|---------------|-------------|
| В | 18mm | 13/16" | 7/8" |
| C | 14mm | 3/4" | 5/8" |
| D | 18mm | 1/2" | 7/8" |
| GC* | 7/8" – 18 | Todas | 7/8" |
| GM* | 18mm | Todas | 7/8" |
| Н | 14mm | 7/16" | 13/16" |
| J | 14mm | 3/8" | 13/16" |
| L | 14mm | 1/2" ó 0,472" | 13/16" |
| M | 18mm | 1/2" | 7/8" |
| N | 14mm | 3/4" | 13/16" |
| S | 1-1/8" | 5/8" | 1" |
| W | 7/8" – 18" | Todas | 15/16" ó 1" |
| χ | 14mm | 1/2" ó 0.500" | 5/8" |

^{*} Conector hembra 1" - 20

| No. ref. | Descripción |
|----------|--|
| 1-25 | Automotriz, motores pequeños, armamento |
| 75-99 | Aplicaciones industriales y especiales |

| Letra | Descripción |
|-------|---|
| В | Electrodo de does tierros |
| C | Diseño Copper Plus |
| D | Electrodo redondo a tierra de punta saliente |
| F | Electrodo de tres tierras |
| G | Electrodo de alambre fino semiprecioso |
| J | Electrodo de tierra recortado, incluye separación modificada |
| N | Electrodo de cuatro tierros |
| P | Electrodo de platino |
| R | Alambre de empuje |
| Υ | Punta de núcleo saliente normal |
| *PP | Platino doble |
| *PYP | Platino doble saliente |
| *WP | Iridio/ Platino |
| WPC | Iridio/ Platino/ Cobre |
| WPCC | Iridio/ Platino/ Cobre doble |

Incluye diseño Copper Plus

| No. | Descripción |
|-----|------------------|
| 15 | Separados 0,015" |
| 17 | Separados 0,017" |
| 21 | Separados 0,021" |
| 25 | Separados 0,025" |

El símbolo de ventas de una bujía está compuesto por un número básico de "gama térmica" con letras y números para indicar las propiendades importantes del diseño de lay bujía. Estas tablas contienen un ejemplo detallado del símbalo de ventas de Champion.



| | PR | EMIUM LONG I | NIUM LONG LIFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | SHIELDED 3/4"-20 | | INTEGRAL COIL TYPE 13/16"-20 | | |
|---------------------------------------|-------|--------------|----------------|------------|---------------------------|------------|-------|-------------------------|---------------------|----------------|---------------------------------|--------------------|------------|
| MAKE | STOCK | PLUG | | STOCK | PLUG | | STOCK | PLUG | STOCK | 74"-20 PLUG | STOCK | PLUG | |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| ABC | | | | | | | | | | | | | |
| Washing Machines | | | | | | | | | | | | | |
| All Models ABC | | | | 569 | W14 | .025 | | | | | | | |
| AJAX | | | | | , | | | | | | | | |
| (Cooper Energy Services) | | | | | | | | | | | | | |
| 6-1/2x8CMA, EA30 | | | | 589 | W89D | .030 | | | | | | | |
| 7-1/4x8CMA, E30, 7-1/2x10CMA, E42 | | | | 589 | W89D | .030 | | | | | | | |
| CMA, C30, 7-1/2x10, CMA, EA22 6-1/2x8 | | | | 569 | W14 | .030 | | | | | | | 1 |
| DP115, DP125 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DP160, DPC160 11x14 | | | 1 | 518 | W18 | .030 | | | | | | | 1 |
| DP165, DP300, DP325 15x16 | | | | 518 | W18 | .030 | | | | | | | 1 |
| DP230, DP250 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | 1 |
| DP60, DPC60, DPC120 9-1/2x12 | | 1 | | 518 | W18 | .030 | | | | | | | 1 |
| DP80, DPC80 11x14 | | | | 518 | W18 | .030 | | | | | | | 1 |
| DPC115, DPC140 13-1/4x16 | | | 1 | 518 | W18 | .030 | | | | | | | 1 |
| DPC162, DPC180, DPC300 15x16 | | 1 | 1 | 518 | W18 | .030 | | | | | | | 1 |
| DPC180LE, DPC360LE Main Chamber | | | 1 | 518 | W18 | .030 | | | | | | |] |
| DPC180LE, DPC360LE Pre Chamber | 1207 | RW80PP | .015 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| DPC230, DPC280 13-1/4x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC360, DPC540 15x16 | | | | 518 | W18 | .030 | | | | | | | |
| DPC600, DPC800 | | | | 518 | W18 | .030 | | | | | | | |
| DPC600LE, DPC800LE Main Chamber | | | | 518 | W18 | .030 | | | | | | | |
| DPC600LE, DPC800LE Pre Chamber | 1207 | RW80PP | .015 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| DPC81 10-1/2x12, DPC105 12x14 | | | | 518 | W18 | 030 | | | | | | | |
| E15 5-1/4x8, E42, C40, C42 8-1/2x10 | | | | 569 | W14 | .030 | | | | | | | |
| WL, EA15 5x6-1/2 | | | | 569 | W14 | .030 | | | | | | | |
| ALLIS-CHALMERS | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| G-138, G-149, G-160, 14 Power Units | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| G-226 3/8" Reach | | | | 102 | RJ6C | .020 | | | | | | | |
| 0.000.0.000.0/#.D | | | | 871 | RJ8C | | | | | | | DT1170110 | |
| G-226, G-262 3/4" Reach | | | | 123 | RN5C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP RTN79G | .025 |
| P-1879, PC-1879, PC-2505, PCS-2505 | | | | 120 | N5C D9 | | | | | | 540 | KIN/9G | |
| | | | | 509 | _{Da} | .025 | | | | | | | |
| LOW GRADE FUEL G-226 3/4" Reach | | | | 405 | RN14YC | 020 | | | | | | | |
| 0.000 144 004 04011 D | | | | | 1 | .030 | | | | | | | |
| G-226, W-201 3/8" Reach | | | | 592 511 | J11C | .030 | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| G-138, G-149, 14 Power Units | | | | 102 | RJ6C | .020 | | | | | | | |
| G-130, G-143, 14 FOWEI OIIIIS | | | | 823 | J6C | .020 | | | | | | | |
| G-160 | | | | 825 | J4C | .020 | | | | | | | |
| G-226 3/8" Reach | | | | 102 | RJ6C | .020 | | | | | | | 1 |
| 0 120 0/0 11000. | | | | 871 | RJ8C | .020 | | | | | | | |
| G-226, G-262 3/4" Reach | | | 1 | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G |] |
| AMERICAN MOTORS | | | | | | | | | | | | | |
| 232, 258 cid 6-Cyl. | | | | 404 | RN12YC | .025 | | | | | | | |
| | | |] | 38 | N12YC | | | | | | | |] |
| 304, 360 cid V-8 | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| ARIEL | | | | | | | | | | | | | |
| JGS-1 High Tension | 530 | RN79G | .012 | | | | | | | | 1232 | RTN79WYP | .012 |
| | | | | | | | | | | | 540 | RTN79G |] |
| JGS-1 Low Tension | 530 | RN79G | | | | | | | | | 1232 | RTN79WYP | ,012 |
| | | | <u> </u> | <u> </u> | <u> </u> | <u>l</u> . | | <u></u> . | <u></u> | <u> </u> | 540 | RTN79G | <u> </u> . |
| ARROW | | | | | | | | | | | | | |
| C46, C66, C96, C106, C255 | | | | 502 | D21 | .025 | | | | | | | |
| | | | | 543 | D89D | | | | | | | | |
| C96, C106, C255 | | | | 502 | D21 | .025 | | | | | | | |
| | | | | | 1 | 6 | | | | | | | |





| | PR | EMIUM LONG L | IFE | COPPER PLUS UNSHIELDED | | | | PREMIUM LDED 3/4"-20 | | HELDED 4/4"-20 | | GRAL COIL E 13/16"-20 | | |
|--|-------|---------------------|------|---------------------------|------------------|------|-------|-------------------------|-------|-------------------|-------------|--------------------------|------|--|
| MAKE | STOCK | PLUG | | STOCK | PLUG | | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | | |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP | |
| ARROW | | | | | | | | | | | | | | |
| L-333, L-795, L-1770, L-2165, F-208 | | | | 589 | W89D | .025 | | | | | | | | |
| VRG220, VRG330 | 530 | RN79G | .015 | 123 | RN5C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 | |
| V 40 V 40 V 04 V 22 | | | | 120 | N5C | | | | | | 540 | RTN79G | | |
| Y-12, Y-18, Y-24, Y-33 | | | | 405 | RN14YC | .030 | | | | | | | | |
| BARTON | | | | l | | | | | | | | | | |
| Washing Machines | | | | 074 | D 100 | 000 | | | | | | | | |
| All Models BARTON | | | | 871 841 | RJ8C J8C | .030 | | | | | | | | |
| BAUDOUIN | | | | | 300 | | | | | | | | | |
| 6 or 12 P15.2 | | | | 685 | S59YC | .020 | | | | | | | | |
| | | | | 000 | 33910 | .020 | | | | | | | | |
| BERNARD | 4004 | DLOCO | 045 | 020 | DI 000 | 005 | FF4 | DUI 700 | | | FFC | DTLOCO | 045 | |
| All Models BERNARD | 1224 | RL85G | .015 | 830 306 | RL86C L86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .015 | |
| BUDA (See Allis-Chalmers) | | | | | 1 | | | | | | | | | |
| | | , | | | | | | | | | | | | |
| CASE | | | | | | | | | | | | | | |
| 188G, 301G, 377G Gasoline | | | | 516 | D16 | .025 | | | | | | | | |
| 188G, 301G, 377G Natural & LP Gas | 233 | RM82WPCC | .012 | 555 519 | UD16 RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 | |
| 100G, 301G, 377G Natural & LP Gas | 233 | RM77PP | .012 | 519 | KIVI//N | .015 | 222 | RHM78PP | 234 | KINITON | 1201 | RTM77PP RTM78N | .015 | |
| A284, A377, 159G Gasoline | .= | | | 516 | D16 | .025 | | ! !! !!!!! !!! ! | | | ' | | | |
| | | | | 555 | UD16 | | | | | | | | | |
| A284, A377, 159G Natural & LP Gas | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 | |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | | |
| CATERPILLAR | | | | | | | | | | | | | | |
| D315G | | | | | | | | | | | | | | |
| D318G | | | | | | | | | | | | | | |
| G3304 copy the 1/2" reach and 3/4" rache | | | | | | | | | | | | | | |
| NATURAL GAS | 4004 | DI 050 | 0.45 | -0- | D1 45D | 0.45 | | DI II 70.0 | | | | DTI 050 | 045 | |
| 3306, G333 1/2" Reach | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 | |
| 3306, G333 3/4" Reach, G343, G3304 | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 | |
| G3400 Series | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 | |
| 35.05 35.05 | | | | | | | 0.0 | | | | 540 | RTN79G | 10.0 | |
| G342, G353, G375, G379 | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 | |
| | 1230 | FB77WPCC | | | | | | | | | | | | |
| G3500 Series | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 | |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | | |
| G3600 Series | 634 | RB77WPCC RB77WPC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 | |
| G3600 Series (Sensor Plug) | 636 | I RB//WPC | | 643 227 | RB75N FI21505 | | | | | | | | | |
| G3600 Series (Sensor Plug) Bulbos | | | | 1211 | FI21503 | | | | | | | | | |
| G397, G398, G399 | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 | |
| STARTING ENGINES FOR DIESELS | | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | | |
| D320, D339, D342, D343, D353 | | | | 58 | RJ18YC | .030 | | | | | | | | |
| D330, D333 | | | | 14 | RJ12YC | .030 | | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | | |
| D375, D379, D397, D398, D4600 | | | | 58 | RJ18YC | 030 | | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | | |
| D320, D326, D337 | | | | 516 | D16 | .025 | | | | | | | | |
| D339, D342, D343, D353 | | | | 555 516 | UD16 D16 | .025 | | | | | | | | |
| 2000, DOTE, DOTO, DOO | | | | 555 | UD16 | .023 | | | | | | | | |
| D375, D379, D397, D398 | | | | 516 | D16 | .025 | | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | | |
| CHRYSLER | | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | | |
| 1976-75 H225, HB-225 | | | | 406 | RV12YC | .035 | | | | | | | | |
| H440 | | | | 63 | RJ14YC | .035 | | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | | |



| | PR | EMIUM LONG I | LIFE | | COPPER PLUS | | | PREMIUM | | HIELDED | | GRAL COIL | |
|---|-------|--------------|------|------------|--------------------|------|-------|----------------------|-------|-----------------|-------------|---------------------|------|
| MAKE | STOCK | PLUG | | STOCK | UNSHIELDED PLUG | | STOCK | LDED 3/4"-20 PLUG | STOCK | 7/4" -20 | STOCK | E 13/16"-20 PLUG | |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| CHRYSLER | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | |
| IND54 | | | | 58 | RJ18YC | .035 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| LH318, H170, HB170 | | | | 404 38 | RN12YC N12YC | .035 | | | | | | | |
| Thru 1974 H225, HB-225 | 530 | RN79G | .020 | 404 | RN12YC | .035 | 575 | RHN79G | | | 1232 | RTN79WYP | ,020 |
| | | | | 38 | N12YC | | | | | | 540 | RTN79G | |
| Normal Service | | | | | | | | | | | | | |
| 1975-73 440-3 (Motor Home) | | | | 400 | RV9YC | .035 | | | | | | | |
| 1976-75 H225, HB-225 | | | | 406 | RV12YC | .035 | | | | | | | |
| 1978 H105 | | | | 415 | RN9YC | .025 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| 1978-77 HB225 | | | | 406 | RV12YC | .035 | | | | | | | |
| 1978-77 L360, LH360 | | | | 404 | RN12YC | .035 | | | | | | | |
| 4070 77 111240 | | | | 38 | N12YC | | | | | | | | |
| 1978-77 LH318 | | | | 322 302 | RN11YC4 N11YC | .035 | | | | | | | |
| | | | | 404 | RN12YC | .035 | | | | | | | |
| 11210 | | | | 38 | N12YC | | | | | | | | |
| H318, HB318, HC318, HT318 | | | | 14 | RJ12YC | .035 | | | | | | | |
| |] |] |] | 10 | J12YC | | | |] | | | | |
| H361, H383, H413, HA318 | | | | 63 | RJ14YC | .035 | | | | | | | |
| H440 | | | | 63 | RJ14YC | .035 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| HB361, HB383, HC361, HT361 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| LIDAAO LIDAAO LIDAAO | | DNZOO | | 120 | N5C | | | DUNZOO | | | 540 | RTN79G | |
| HB413, HC413, HB170 | 530 | RN79G | .020 | 123 120 | RN5C N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| HT413, HB426, HC426, H170 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| 1114 10, 110420, 110420, 11170 | 330 | INIVI 30 | .020 | 120 | N5C | .020 | 373 | 14114730 | | | 540 | RTN79G | .020 |
| IND12A, IND19B, IND52 | | | 1 | 871 | RJ8C | .035 | | | | | | | |
| |] |] |] | 841 | J8C | | | |] | | | | |
| IND14, IND14A, IND15, IND15A |] | | 1 | 592 | RJ12C | .035 | | | 1 | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND16A, IND 18A, IND19A, IND20A | | | | 592 | RJ12C | .035 | | | | | | | |
| INDOGA INDOGA | | | | 511 | J11C | | | | | | | | |
| IND23A, IND24A IND30, IND38, IND908A, IND931 | | | | 504 592 | N21 RJ12C | .035 | | | | | | | |
| IND30, IND30, IND300A, IND331 | | | | 511 | J11C | .033 | | | | | | | |
| IND31, IND32, IND33 | | | | 592 | RJ12C | .035 | | | | | | | |
| , | | | | 511 | J11C | | | | | | | | |
| IND53, IND56, IND56A | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| IND54 | | | | 58 | RJ18YC | .035 | | | | | | | |
| l <u></u> | | | | 823 | J6C | | | | | | | | |
| IND5A, IND6A, IND7A | | | | 592 | RJ12C | .035 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| IND8A, IND13, IND13A | | | | 592 511 | RJ12C J11C | .035 | | | | | | | |
| LLH318 | | | | 322 | RN11YC4 | .035 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| LT318 |] | | | 129 | RF10C | .035 | | |] | | | | |
| Thru 1974 H225, HB-225 | 530 | RN79G | .020 | 404 | RN12YC | .035 | 575 | RHN79G | | | 1232 | RTN79WYP | ,020 |
| | | | | 38 | N12YC | | | | | | 540 | RTN79G | |
| Severe Service | | | | | | | | | | | | | |
| H440 | | | | 63 | RJ14YC | .035 | | | | | | | |
| INDEC INDECA LUCAO | | DNZOO | | 10 | J12YC | | | DUN700 | | | | DTNZOVANO | |
| IND56, IND56A, LH318 | 530 | RN79G | .020 | 123 120 | RN5C N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| NATURAL & LP Gas | | | | | 1,00 | | | | | | | 11111730 | |
| 1977 HB225 | | | | 406 | RV12YC | .020 | | | | | | | |
| H170, HB170, H225, HB225 | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| -,, | | | | 120 | N5C | | | ,,,,, | | | 540 | RTN79G | |
| | | | | | | | | | | | | | |
| | | | | I | İ | 1 | | | | | | | |





| | PR | EMIUM LONG L | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"-20 | | GRAL COIL E 13/16"-20 | |
|--|-------------|--------------------|------|-------------------|--------------------------------|--------------|------------|-------------------------|-------|--------------------|-------------|--------------------------|------------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| CHRYSLER | NO. | TYPE | 0, | NO. | TYPE | 07 | NO. | TYPE | NO. | TYPE | NO. | TYPE | O 7 |
| NATURAL & LP Gas H318, HB318, HC318, HT318 | | | | 14 | RJ12YC | .035 | | | | | | | |
| H361, H383, H413, HA318 HB361, HB383, HC361, HT361 | 530 | RN79G | .020 | 63 818 805 | J12YC RJ14YC RN2C N2C | .035 | 575 | RHN79G | | | 1232 | RTN79WYP RTN79G | .020 |
| HB413, HC413, HT413, HB426, HC426 | 530 | RN79G | .020 | 818 805 | RN2C N2C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| IND13A, IND14, IND13A, IND14A, IND15 | | | | 871 841 | RJ8C J8C | .020 | | | | | | | |
| IND15A, IND16A, IND30, IND31, IND32 | | | | 871 841 | RJ8C J8C | .020 | | | | | | | |
| IND33, IND38, IND908A, IND931 | | | | 871 841 | RJ8C J8C | .020 | | | | | | | |
| IND5A, IND6A, IND7A, IND8A, IND13 | | | | 871 841 | RJ8C J8C | .020 | | | | | | | |
| CLARK (See Dresser Clark) | | | | | | | | | | | | | |
| CLEVELAND DIESEL | | | | | | | | | | | | | |
| Model 358 | 1207 582 | RW80PP RW82P | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| CLIMAX | | | | | | | | | | | | | |
| GASOLINE CE101, CE106, CE264 | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| CE46, CE66, CE81, CE96 R-165 Snowplow Only | | | | 514 516 | D14 D16 | .025 .025 | | | 563 | XED16 | | | .025 |
| V-80, V-85, V-122, V-125 8.2:I C.R. V-80, V-85, V-122, V-125 9.4:1 C.R. | 233 | RM82WPCC | .012 | 555 514 519 | UD16 D14 RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| V-00, V-03, V-122, V-123 5.4.1 G.N. | 217 | RM77PP | .012 | 319 | IXIVIT IN | .013 | 222 | RHM78PP | 204 | INTOIN | 1201 | RTM78N | ,013 |
| COMPRESCO | | | | | | | | | | | | | |
| Search for model - Natural gas pipe line | | | | | | | | | | | | | |
| CONTINENTAL ALL FUELS | | | | | | | | | | | | | |
| B20, 371, 421, R513, R572, R602 | | | | 509 | D9 | .025 | | | | | | | |
| N56 to 62, N4062, NA82, TS415 S6749 to 6820, Y69, Y91, Y112 | | | | 509 509 | D9 | .020 | | | | | | | |
| U501, Z129, 134 GASOLINE | | | | 509 | D9 | .025 | | | | | | | |
| Normal Service 700, 800, 900, 1100, 1200 | | | | 871 | RJ8C | .030 | | | | | | | |
| All Other 14mm Heads | | | | 841 | J8C RJ6C | .025 | | | | | | | |
| B405, 4124, 4140, 4162, 4163, 6226 | | | | 823 516 | J6C D16 | .025 | | | | | | | |
| B6244, 6245, 6277, 6371, 6405, 6427 | | | | 555 516 | UD16 D16 | .025 | | | | | | | |
| C46, C66 | | | | 555 543 | UD16 D89D | .025 | | | | | | | |
| C96, C106, C225 E223, F124, 135, 140, 162, 163, 186 | | | | 502 516 | D21 D16 | .025 | | | | | | | |
| F209, 226, 227, 244, 245 | | | | 555 516 | UD16 D16 | .025 | | | | | | | |
| F06228 | | | | 555 404 | UD16 RN12YC | .030 | | | | | | | |
| G134, 157, 176, H227, 243, 260 | | | | 516 555 | D16 | .025 | | | | | | | |
| G193, K6271, 6298, 6330, 6363 | | | | 871 841 | RJ8C J8C | .025 | | | | | | | |
| G4193 J382 to 403, T371 to 247 | | | | 516 | D16 | .025 | | | 857 | RH18Y | | | .030 |
| | | | | 555 | UD16 | | | | | | | | |



| | PR | EMIUM LONG L | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM ELDED 3/4"-20 | | HIELDED | | GRAL COIL | |
|---|------------|--------------------|------|---------------|---------------------------|--------------|------------|--------------------------|-------|-------------------|-------------|-------------------|------|
| MAKE YEAR and MODEL | STOCK | | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| CONTINENTAL | NO. | TYPE | OAI | NO. | TYPE | OAI | NO. | TYPE | NO. | TYPE | NO. | TYPE | OAI |
| GASOLINE | | | | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |
| L478 | | | | 825 | J4C | .025 | | | | | | | |
| L6478 | | | | 102 823 | RJ6C J6C | .025 | | | | | | | |
| M6271, 6290, 6330, 6363, OS220 | | | | 516 | D16 | .025 | | | | | | | |
| Multi-Tool | | | | 555 592 | UD16 RJ12C | .025 | | | | | | | |
| | | | | 511 327 | J11C RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |
| R6513, 6572, 6602, U6501 14mm Heads | | | | 871 841 | RJ8C J8C | .025 | | | | | | | |
| R6513, 6572, 6602, U6501 18mm Heads | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| R688-46, R800-46, R810-46, R839-46 | | | | 327 | RL87YC | .025 | | | | | | | |
| RS542, T6371, 6427, TC56 | | | | 312 516 | L87YC D16 | | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| TM13, 20, 27 | | | | 415 300 | RN9YC N9YC | .035 | | | | | | | |
| TS415, Z134 | | | | 509 | D9 | .025 | | | | | | | |
| Y69, Y91, Y112, Y4069, 4091, 4112 | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| Z105 to 120, ZA120 | | | | 555 516 | D16 | .025 | | | | | | | |
| Cavara Camila | | | | 555 | UD16 | | | | | | | | |
| Severe Service F4163, F6227, F6245 | | | | 509 | D9 | .025 | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| All Other 14mm Heads | | | | 102 | RJ6C | .025 | | | | | | | |
| C46, C66, C96, C106, C255 | | | | 823 502 | J6C D21 | .025 | | | | | | | |
| | | | | 543 | D89D | | | | | | | | |
| E223, F124, 162, 224, 226 G193 | | | | 509 102 | D9 RJ6C | .020 | | | | | | | |
| 193 | | | | 823 | J6C | .020 | | | | | | | |
| H280, 277, M271, 290, 330, 363 | | | | 509 | D9 | .020 | | | | | | | |
| J382 to 403 S749, T247, 371 to 427 | | | | 509 | D9 D9 | .020 | | | | | | | |
| COOPER - BESSEMER | | | | | | .020 | | | | | | | |
| Shielded | | | | | | | | | | | | | |
| GAW, GMR, GMV, JS | 1207 | RW80PP | .012 | 545 | W85N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| GMW, GMX V-250, V-275 5/8" Reach | 582 | RW82P | | 580 | W80N | | 578 | REW82P | 534 | REW80N | 638 | RTW80N | 015 |
| GMWA, GMWC 5/8" Reach | | | | | | | 578 578 | REW82P REW82P | 534 | REW80N REW80N | | | .015 |
| GMWA, GMWC, GMW, GMX, V-250, V-275, | | | | | | | | | 635 | RHW78N | | | .012 |
| Z330 1"Rch. GMXE, GMWH, GMXH, W330 1" Reach | | | | | | | | | 635 | RHW78N | | | .012 |
| GMXE, GMWH, GMXH, W330 5/8" Reach | | | | | 1 | | 578 | REW82P | 534 | REW80N | | | .015 |
| Unshielded | | | | | | | | | | | | | |
| ENG, GNG | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 | RHM78WPCC | 222 | RHM78PP RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| GAB, GAF, GAG, GAJ, GAN | | | | 513 | C97B | .025 | | | | | | | |
| GAO, GAOA, GAR, GAU, GBE, GBE, GBG | | | | 513 | C97B | .025 | | | | | | | |
| GAS, EN, ENB; 'Hope' 14-3/4" x 16" GAW, GMR, GMV, JS | 1207 | RW80PP | .012 | 513 545 | C97B W85N | .025 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | ,015 |
| | 582 | RW82P | | 580 | W80N | | 578 | REW82P | 534 | REW80N | 638 | RTW80N | |
| GBH, GBI, GBK | | | | 518 | W18 | .025 | | | | | | | |
| GBM thru GBP, GN, GSC, GSD GDA thru GDS, GHA, GHB, GMD | | | | 518 513 | W18 C97B | .025 .025 | | | | | | | |
| GDJ, GMA, GMB, GMC w/G402 Reducing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 222 | RHM78PP | 223 | RTM77PP | .015 |
| Bushing | 217 | RM77PP | | 529 | D14N | | | | 234 | RHM78N | 1201 | RTM78N | |
| | | | | . | | | | | | | | | |





| | PRI | MIUM LONG L | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HELDED | | GRAL COIL E 13/16"- 20 | |
|--|----------------------|---------------------|------|-------------------|---------------------------|------|-------|-------------------------|-------|---------|-------|----------------------------------|------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| COOPER - BESSEMER | NO. | TYPE | | NO. | TYPE | | NO. | TYPE | NO. | TYPE | NO. | TYPE | • |
| Unshielded | | | | | | | | | | | | | |
| GDT, GFB, GFE, GFK w/G402 Reducing Bushing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 222 | RHM78PP | 223 | RTM77PP | .015 |
| GMG, GMO, GMOA, GRC | 217 | RM77PP | | 529 513 | D14N C97B | .025 | | | 234 | RHM78N | 1201 | RTM78N | |
| GMVH, LSVB | 228 | RW77PP | .012 | 513 565 631 | C97B RW77N RW78N | .015 | | | 635 | RHW78N | 552 | RGC77N | ,015 |
| GMW, GMX, V-250, V-275, W330 5/8" Reach | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| GMWA, GMWC, GMW, GMX, V-250, V-275, Z330 1" Reach | 228 | RW77PP | .012 | 565 | RW77N RW78N | .012 | | | 635 | RHW78N | 552 | RGC77N | ,012 |
| GMWC, GMWA 5/8" Reach | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| GMXE, GMWH, GMXH 5/8" Reach | 1207 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | ,015 |
| GMXE, GMWH, GMXH, W330 1"Rch. | 228 | RW77PP | .012 | 565 631 | RW77N RW78N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| GS 'Hope' 18" x 20" | | | | 555 525 | UD16 25 | .025 | | | | | | | |
| LS, LSV 1-1/8"-12 Heads | | | | 598 | RS79N | .012 | | | | | | | |
| LS, LSV 7/8"-18 Heads | | | | 510 580 | W10 W80N | .015 | | | | | | | |
| Quad Series | 228 | RW77PP | .012 | 565 631 | RW77N RW78N | .012 | | | 635 | RHW78N | 552 | RGC77N | .012 |
| Z330 5/8" Reach | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| COOPER ENERGY SERVICES (See Su | perio | r) | | | | | | | | | | | |
| CP - CHICAGO PNEUMATIC | | | | | | | | | | | | | |
| 16CPG, RHGB-50 9CPG High Compression | | | | 518 | W18 | .025 | | | 534 | REW80N | | | .015 |
| 9CPG Low Compression | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| Cat. D13000 And Other 7/8"-18 Heads | | | | 569 | W14 | .025 | | | | | | | |
| CUMMINS | | | | | | | | | | | | | |
| 6B 6B w/230 hp | 1206 | RC78WP RC78PYP | .017 | 2095 1209 | 2095 RC78YCC15 | .020 | | | | | | | |
| 6C | 1208 1206 1208 | RC78WP RC78PYP | .017 | 1209 | RC78YCC15 | .017 | | | | | | | |
| FTA19GC SLB | 1230 634 | FB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| G3.9 | 636 | RB77WPC RC78WP | .012 | 643 | RB75N RC78YCC15 | .012 | | | | | | | ,012 |
| G5.9 | 1208 | RC78PYP RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| G5.9e | 1208 | RC78PYP RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| G8.3 | 1208 | RC78PYP RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| G8.3e | 1208 | RC78PYP RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 1230 | RC78PYP FB77WPCC | | | | | | | | | | | |
| G855 | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| G855e | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| GM11 GNHC-4, GNH-220, GNH-250 1/2" Reach | 1224 | RL85G | .025 | 535 | RL15B | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| GNHC-4, GNH-220, GNH-250 3/8" Reach | | | | 825 | J4C | .025 | | | | | | | |



| | PR | EMIUM LONG I | LIFE | | COPPER PLUS UNSHIELDED | | | PREMIUM ELDED 3/4"-20 | | HIELDED /4"-20 | | GRAL COIL E 13/16"- 20 | |
|--|---------------------|----------------------|------|------------|---------------------------|------|-------|--------------------------|-------|-------------------|-------|----------------------------------|---------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| CUMMINS | NO. | TYPE | GAI | NO. | TYPE | GAI | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAI |
| GTA 8.3 | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 | RC78PYP | | | | | | | | | | | |
| GTA8.3 SLB | 1206 | RC78WP | .017 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 1208 1230 | RC78PYP FB77WPCC | | | | | | | | | | | |
| GTA855 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| GTA855e | 1230 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| | 636 | RB77WPC | .012 | 643 | RB75N | .012 | | | | | | | |
| GV-12450, GM-12-525 3/8" Reach | | | | 825 | J4C | .025 | | | | | | <u></u> | |
| GV-12450, GV-12-525 1/2" Reach | 1224 1230 | RL85G FB77WPCC | .025 | 535 | RL15B | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| KTA19GC | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| INTARROOM OF B | 1230 | FB77WPCC | 040 | 007 | DD7700 | 040 | | | 004 | DUDOAN | 00.5 | DTD77WD00 | 040 |
| KTA38GC SLB | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| L-10 | 219 | RC78PYP | .021 | | | | | | | | | | |
| L10CNG | | | | | | | | | | | | | |
| Q19G | 1230 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 4130 | 636 | RB77WPC | .012 | 643 | RB75N | .012 | | | 024 | TO DO IN | 200 | | .012 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| QSV 81-V16 | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 1230 | FB77WPCC | | | KD/JN | | | | | | | | |
| QSV 91-V18 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| Engines w/Special Adapter No. 173416 5/8" Reach w/N677 Gasket | 530 | RN79G | .025 | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | ,025 |
| | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| No. 90210035, 90210036 3/4" Reach | 530 | RN79G | .025 | 818 | RN2C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| VHP SERIES | | | | 805 | N2C | | | | | | 540 | RTN79G | |
| V-16 | | | | | | | | | | | | | |
| 9390G, P9390GSI | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| DECO-GRAND | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| AU7B, DE8 | | | | | | | | | 567 | XEJ12 | | | ,025 |
| DE2, DE2R, DE3, DE3R, DE7R, DEA8 | | | | 871 | RJ8C | .025 | | | | | | | . ,,,,, |
| | | | | 841 | J8C | | | | | | | | |
| DELAVAL | 000 | DWZZDD | 040 | 000 | DW/77N | 045 | | | F77 | DUMZZNI | FF0 | D0077N | 045 |
| 1980-69 HV-8, HV-12, HV-16 | 228 | RW77PP | .012 | 206 539 | RW77N W77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| 1980-72 HA6, HVA-8 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| 1000 72 11/4 46 | 228 | RW77PP | | 539 | W77N | .015 | | | | RHW77N | 552 | DO077N | ,015 |
| 1980-73 HVA-16 | 220 | RWITPP | .012 | 206 539 | RW77N W77N | .015 | | | 577 | KHWIIN | 332 | RGC77N | 610, |
| 1980-74 HVA-12 | 228 | RW77PP | .012 | 206 | RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| DETROIT DIEGAL | | | | 539 | W77N | | | | | | | | |
| DETROIT DIESAL 149 Series | | | | | | | | | | | | | |
| 149 Selies | 1230 | FB77WPCC | | | | | | | | | | | |
| 30, 40, 50 Series | 243 | RC78PYP15 | .015 | | | | | | | | | | |
| 02 Series | 1205 | RB77WPCC | | | | | | | | | | | |
| 92 Series DEUTZ MWM | | | | | | | | | | | | | |
| G620 V-8, TBG616 V-8, TBG616 V-12 | 242 | RB75WPCC | .012 | | | | | | | | | | |
| TBG616K V-8K, TBG616K V-12K, TBG616K | 242 | RB75WPCC | .012 | | | | | | | | | | |
| V-16K | 040 | DDZCWDOO | | | | | | | | | | | |
| TBG620 V-8, TBG620 V-12, TBG620 V-16 TBG620K V-12K, TGB620K V-16K | 242 242 | RB75WPCC RB75WPCC | .012 | | | | | | | | | | |
| 10002011 V-1211, 10002011 V-1011 | 242 | IND/JVVFOC | | <u> </u> | <u> </u> | | | | | | | | |





| | PRI | MIUM LONG L | IFE | | COPPER PLUS | | | PREMIUM | SI | HELDED | INTE | GRAL COIL | |
|---|-------------|--------------------|------|------------|--------------------|------|-------|----------------------|------------|------------------------|-------------|---------------------|------|
| MAKE | STOCK | PLUG | | STOCK | UNSHIELDED PLUG | | SHIE | PLUG | STOCK | /4"- 20 PLUG | STOCK | PLUG | 4 |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| DORMAN | | | | | | | | | | | | | |
| 12S, 12STCWG, 12STCAG, 6PG, 12PG | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| 12SG | 217 | RM77PP RM82WPCC | .012 | 529 519 | D14N RM77N | .015 | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | ,015 |
| | 217 | RM77PP | .012 | 566 | M82N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 3DAG, 4DAG, 6DAG, 6QG, DATG4, 6 | 530 | RN79G | .015 | 880 | RN3C | .015 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| 6LEG | 1224 | RL85G | .015 | 801 874 | N3C RL82C | .015 | 551 | RHL79G | | | 540 556 | RTN79G RTL85G | .015 |
| 6PG, 12PG | 233 | RM82WPCC | .012 | 811 519 | L82C RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | |
| | 217 | RM77PP | | 529 | D14N | | . 222 | RHM78PP | | | 1201 | RTM78N | |
| 6SEG, 8SEG, 12SEG | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| 6SETCWG | | | | 685 | S59YC | .015 | | | | | | | |
| 6SETCWG MinNox | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| DDECCED CLADK | | | | | | | | | | | 540 | RTN79G | |
| DRESSER CLARK BA, HBA, HMA, HLA, HRA, MA | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | ,012 |
| DA, HDA, HWA, HEA, HWA, IWA | 582 | RW82P | .012 | 040 | WOON | .012 | 1204 | IXIIVVOOIT | 302 | TATIVOOIN | 030 | TOTAL | ,012 |
| RA, TRA, TLA, TCV | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| Supercharged & Turbocharged HBAT, HLAT, HRAT, TRA, TLA | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | ,012 |
| ITIDAT, TICAT, TICA, TEA | 582 | RW82P | .012 | 580 | W80N | .012 | 1204 | IXIIVVOOIT | 302 | TATIVOOIN | 030 | TOTAL | .012 |
| TCVB, TCVC, TVM, VMC | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| TIAD TIAO TIAD TOV | 582 | RW82P | | 580 | W80N | | 4004 | DUMOODD | | DUMOON | | DTMOON | |
| TLAB, TLAC, TLAD, TPV, TCVA | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| TVC, HSRA, RAS, TMB | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| DRESSER RAND | | | | | | | | | | | | | |
| KVG Pulse Chamber Type | 1207 582 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| KVSR, KVSRA, KVSE, KVFS, PKVSE | 228 | RW82P RW77PP | .012 | 565 | RW77N | .012 | | | 635 | RHW78N | 552 | RGC77N | |
| | | | | 631 | RW78N | | | | | | | | |
| TCV, TCVA, TCVD, TLAD | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| DDESSED Wardcook a | 582 | RW82P | | 580 | W80N | | | | | | | | |
| DRESSER Waukesha See Waukesha | | | | | | | | | | | | | |
| ECHO | | | | | | | | | | | | | |
| KEH202D, SV2 (Kioritz) | | | | 840 | RCJ8 | .025 | | | | | | | |
| | | | | 843 | CJ8 | | | | | | | | |
| ENTERPRISE | | | | | | | | | | | | | |
| GSG-36, 38; GSM-36, 38 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| GSM-36, 38 Unshielded 18mm Heads GSM-36, 38 Unshielded 7/8"-18 Heads | 226 1207 | RB76PP RW80PP | .012 | 576 | RB76N RW80N | .012 | 1204 | RHW80PP | 624 532 | RHB81N RHW80N | 638 | RTB77WPCC RTW80N | .012 |
| GSW-30, 36 Utistileided 7/6 - 16 Heads | 582 | RW82P | .012 | 553 580 | W80N | .012 | 1204 | KHWVOUPP | 532 | KUMOON | 030 | KIWOUN | .012 |
| HV-8, HV-12, HV-16 | 228 | RW77PP | .012 | 206 | RW77N | .015 | 1204 | RHW80PP | 577 | RHW77N | 552 | RGC77N | .015 |
| | | | | 539 | W77N | | | | | | | | |
| TDSG-36-6-38 Center of Head | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| TDSG-36-6-38 Rear Side Of Head | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| FAIRBANKS MORSE | | | | | | | | | | | | | |
| 38D8-1/8 Series | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| 200000 4/0 005 05 00505 4/4 | 217 | RM77PP | | | DD=0 | | . 222 | RHM78PP | | DUBOAN | 1201 | RTM78N | |
| 38DS8-1/8, 38F-85, 38FS5-1/4 FM-7, FM-12, FM-18, FM-24, FM-36 | 226 | RB76PP | 012 | 576 589 | RB76N W89D | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | 012 |
| ZC, ZC118, ZC208, ZC346 | | | | 589 | W89D | .025 | | | | | | | |
| ZC346, ZC503, ZC739 | | | | 589 | W89D | .025 | | | | | | | |
| FICHTEL-SACHS (See Sachs) | | | | | | | | | | | | | |
| FORD | | | | | | | | | | | | | |
| 104 cid | | | | 322 | RN11YC4 | .035 | | | | | | | |
| | | | | 302 | N11YC | . | | | | | | | |
| | | | | l . | 1 | 1 | | | | | | | 4 |



| | PR | EMIUM LONG L | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"- 20 | | GRAL COIL E 13/16"-20 | |
|--------------------------------------|-------|--------------|------|-----------------|---------------------------|-----------|-------|-------------------------|-----------|----------------------------|-------|--------------------------|------|
| MAKE | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAF |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAI |
| FORD | | | | | | | | | | | | | |
| 140 cid (2.3L) | | | | 401 | RS12YC | .035 | | | | | | | ļ |
| 144, 170 cid | | | | 22 | RF11YC | .035 | | | | | | | |
| 153 cid (2.5L) | | | | 401 | RS12YC | .035 | | | 1 | | | | ļ |
| 158, 175, 201, 256 cid | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | |] | | 540 | RTN79G |] |
| 182 cid (3.0L) | | l | | 332 | RN7YC | .035 | | |] | | | |] |
| 200, 240, 250, 262, 292 cid | | | | 129 | RF10C | .030 | | | | | | |] |
| 223, 272 cid | | | | 409 | RF9YC | .030 | | | 1 | | | | 1 |
| 300 cid (4.9L) | | | | 22 | RF11YC | .030 | | | 1 | | | | 1 |
| 330, 332, 361, 391, 401 cid | | | | 129 | RF10C | .030 | | | | | | | 1 |
| 460, 429, 351, 302, 370 cid | | | | 406 | RV12YC | .035 | | | | | | | |
| 477 cid 1977 & Up | | | | 106 | RZF10 | .035 | | | | | | | |
| 477 cid Thru 1977 | | | | | RF10C | .035 | | | | | | | |
| | | | | 129 | | | | | | | | | |
| 534 cid 1976 & Up | | | | 106 | RZF10 | .035 | | | | | | | |
| 534 cid Thru 1976 | | | | 129 | RF10C | .030 | | | | | | | |
| 67 cid (1.1L) | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | . | | | | | | | |
| 79 cid (1.3L) | | | | 304 | RS9YC | .035 | | | | | | | |
| 91, 120, 134, 172, 192 cid Gasoline | | | | | | | | | 854 | RH10C | | | .025 |
| | | | | | 1 | | | | 844 | H10C | | |] |
| 91, 120, 134, 172, 192 cid LP Gas | | | | | | | | | 538 | RH8C | | | .020 |
| | | | | | | | | | 587 | H8C | | | |
| 98 cid (1.6L) | | | | 415 | RN9YC | .035 | | | 1 | | | | 1 |
| , | | | | 300 | N9YC | | | | | | | | |
| CSG 850, CSG 850M-EFI | | | | 406 | RV12YC | .035 | | | 1 | | | | |
| LSG 875 | | | | 406 | RV12YC | .035 | | | | | | | |
| WSG 858, WSG 858-HO | | | | 406 | RV12YC | .035 | | | | | | | |
| | | | | | | | | | | | | | |
| WSG 858, WSG 858-HO EFI, LSG875 | | | | 406 | RV12YC | .035 | | | | | | | |
| FUJI-ROBIN | | | | | | | | | | | | | |
| EC-02, EC-02R | | | | 849 | CJ6 | .025 | | | | | | | ļ |
| EC-05, EC-07, FG-14 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EC-10, EY-21 | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | |] |
| EY-13, EY-18, EY-25, EY-33 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | 1 | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EY-27, EY-14, EY-40, EC-16 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | 1 | | 556 | RTL85G | .025 |
| | RL85 | | | 306 | L86C | | | | | | | | |
| | G | | | | | | | | | | | | |
| EY-44, EY-88, EC-03, EC-04 | 1224 | | .025 | 830 | RL86C | .025 | 551 | RHL79G | 1 | | 556 | RTL85G | ,025 |
| 2, 2. 00, 20 00, 20 0. | RL85 | | | 306 | L86C | | | | | | | | ''-' |
| | G | | | | | | | | | | | | |
| Series FA, KB, KD, KE, KH, KM | 1 | | | 871 | RJ8C | .030 | | | | | | | 1 |
| 551105 174, 175, 175, 175, 171, 1711 | | | | 841 | J8C | | | | | | | | |
| Varana Engina | | | | ! . | | | | | | | | | |
| Kerosene Engines | | | | 000 | 1.00\/0 | 005 | | | | | | | |
| EY-13, EY-18, EY-25, EY-33, EY-44 | | | | 806 | L92YC | .025 | | | | | | | |
| GEMINI | | | | | | | | | | | | | |
| G26, G35 | 1224 | RL85G | .025 | 874 | RL82C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| |] | | | 811 | L82C | | | | | | | |]. |
| GENERAL MOTORS | | | | | | | | | | | | | |
| 16-358HN, 16-358-X | 1207 | RW80PP | 010 | EAF | MOENI | 010 | 1204 | DHWOODD | 520 | DH/W/OUNT | 620 | DTM/OOM | 040 |
| 10-000HN, 10-000-A | | | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| 205 254 404 470 700 01 | 582 | RW82P | | 404 | DNAO | | | DUNZOO | | | 4000 | DTNIZOLANCE | |
| 305, 351, 401, 478, 702 Gasoline | 530 | RN79G | .025 | 104 | RN4C | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .025 |
| 005 054 404 470 700 500 | | Pulace | | 803 | N4C | | | D. D. T. C. | | | 540 | RTN79G | |
| 305, 351, 401, 478, 702 LPG | 530 | RN79G | .025 | 880 | RN3C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| <u>.</u> | | | | 801 | N3C | <u>.l</u> | | | <u></u> . | <u> </u> | 540 | RTN79G | |
| GUASCOR | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| FG180, FGLD180, FG240 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| 1 0 100, 1 0 100, 1 0 2 70 | 636 | RB77WPCC | .012 | 643 | RB75N | .012 | | | 024 | TATIDO TIA | 233 | I KIBITWFOO | ,012 |
| | | FB77WPCC | | | יייייייייייייייייי | . | | | | | | | |
| | 1230 | | | | | | | | | | | | |





| | PR | EMIUM LONG L | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED | | GRAL COIL | |
|---|---------------|---------------------|------|-------------|---------------------------------------|--------------|-------|-------------------------|-------|----------------|-------|---------------------|------|
| MAKE | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | /4"-20 PLUG | STOCK | E 13/16"-20 PLUG | GAP |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| GUASCOR | C2.4 | DDZZWDOO | 040 | 007 | DD7700 | 040 | | | C04 | DUDOAN | 005 | DTD77WDCC | 040 |
| FGLD240, FGLD360, FGLD480 | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| HGM 560 | . 000 | | | | I I I I I I I I I I I I I I I I I I I | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| SFGLD 180, SFGLD 240, SFGLD 360, SFGLD | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 480, SFGLD 560 | | | | | | | | | | | | | |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| HALL SCOTT | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| 1091-G1 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 1091-OS Intake | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| 136, 180, 190, 504 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 151, 152, 165, 167 | | | | 569 | W14 | .025 | | | | | | | |
| 200-0, 201-0; 400-0 Regular | | | | 514 | D14 | .025 | | | | | | |] |
| 400-0 Water-Jacketed Exhaust | | | | 509 | D9 | .025 | | | | | | | |
| 400-0, 300, 470, 480 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 400-0, 470, 480 Sour Gas | | | | 597 | K97F | .020 | | | | | | | |
| 400-0, 470, 480, 6156 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 440, 2269-0; 1091-OS Exhaust 590 Series | | | | 514 102 | D14 RJ6C | .025 | | | | | | | |
| 000 OG1169 | | | | 823 | J6C | .025 | | | | | | | |
| 6156, FE, G1, G2 Intake | | | | 502 | D21 | .025 | | | | | | | |
| 6156-B1, 6182-B1, 1091-B1 Exhaust | | | | 506 | D6 | .025 | | | | | | |] |
| 6156-B1, 6182-B1, 1091-B1 Intake | |] | | 514 | D14 | .025 | | | | | | |] |
| 6182, G1, G2, FE Intake | | | | 502 | D21 | .025 | | | | | | | |
| 779-GHI | | | | 516 | D16 | .025 | | | | | | | |
| 955 025 Exhaust | | | | 555 506 | UD16 D6 | | | | | | | | |
| 855, 935 Exhaust 855, 935 Intake | | | | 502 | D21 | .025 | | | | | | | |
| F3, G1, G2, 6182 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| G1, G2, FE; 1091G1 Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | 1 |
| 400-0, 470, 480, 855, 935 Exhaust | | | | 506 | D6 | .020 | | | | | | | |
| 400-0, 470, 480, 855, 935 Intake | | | | 514 | D14 | 020 | | | | | | | |
| 590 Series | | | | 825 | J4C | .025 | | | | | | | |
| HERCULES | | | | | | | | | | | | | |
| 1091-OS Exhaust | | | | 514 | D14 | .025 | | | | | | | |
| 1091-OS Intake | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| 1404 | | | | 14 | RJ12YC | .025 | | | | | | | |
| |] | | | 10 | J12YC | | | | | | | |] |
| 149H, 169H, 198AH, L237 | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | . <u></u> . | | | | | | | |
| 14mm Heads Using Natural Gas | | | | 825 | J4C | .015 | | | | | | | |
| 6156, 6182 Natural & LP Gas Exhaust 6156, 6182 Natural & LP Gas Intake | | | | 506 514 | D6 D14 | .025 | | | | | | | |
| GTA 3.7, GTA 5.6 | 219 | RC78PYP | .025 | | ···· | 023 | | | | | | | |
| HXE, HXLEF | . | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | . | | | | | | | |
| IXB | | | | 592 | RJ12C | .025 | | | | | | | |
| IVI D IVO IVD IVI S 44 | | | | 511 | J11C | | | | | | | | |
| IXLB, JXC, JXD, JXLD, 14mm Heads | | | | 871 841 | RJ8C J8C | .025 | | | | | | | |
| JXLD, JXC 18mm Heads | | | | 509 | D9 | .025 | | | | | | | |
| JXLDER, IXBER, NXB, JX4LD | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| QXC, QXD, JX4C, GO6, JX4S, RXC | | | | 871 | RJ8C | .025 | | | | | | | |
| DVI DU CO COD IVA OVI D COA | ļ | | | 841 | J8C | | | | | | | | |
| RXLDH, C2-90D, IXA, QXLD, GO4 | | | | 871 841 | RJ8C J8C | .025 | | | | | | | |
| Thermo King | 644 | RJ88P | .015 | | | . | | | | | | | |
| Normal Service | | | | ļ · · · · · | 1 | | | | | | | | |
| - · · · · · · · · · · · · · · · · · · | | | | | | | | | | | | | |



| | PR | EMIUM LONG I | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"- 20 | | GRAL COIL E 13/16"-20 | |
|--|-------------|-------------------|------|------------|---------------------------|-------|-------|-------------------------|-------|----------------------------|-------|--------------------------|-------|
| MAKE YEAR and MODEL | STOCK | | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| HERCULES | NO. | TYPE | 0, | NO. | TYPE | 07.11 | NO. | TYPE | NO. | TYPE | NO. | TYPE | 07.11 |
| Normal Service | | | | | | | | | | | | | |
| CV4-180, CV4-180ER | | | | 871 | RJ8C | .025 | | | | | | | |
| | | | | 841 | J8C | | | |] | | | |] |
| G-1000 Natural & LP Gas | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| G298H | | | | 102 823 | RJ6C J6C | .030 | | | | | | | |
| G3400 Power Unit (Magneto Ignition) | | | | 102 | RJ6C | .025 | | | | | | | |
| | | | | 823 | J6C | | | | | | | |] |
| G4800, GTA4800 | 1206 218 | RC78WP RC78PYP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| GO Series 226, 298, 339, 226AH | | | | 102 | RJ6C | .025 | | | | | | | |
| LOGO OVE MINIO CO | | | | 823 | J6C | | | | | | | | |
| GO3, QXB, WXLC, GO | | | | 102 823 | RJ6C J6C | .025 | | | | | | | |
| G-Series 1400, 1500, 1600, 1700 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| G-Series 2000, 2300, 3000, 3400 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| HOFFCO | | | | 212 | 2010 | *** | | | | | | | |
| Powerhead (Power Products AV52) | | | | 840 843 | RCJ8 CJ8 | .030 | | | | | | | |
| Powerhead (Tecumseh Engines) | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | |] |
| HOPE (See Cooper-Bessemer) | | | | | | | | | | | | | |
| INGERSOLL - RAND | | | | | | | | | , | | | | |
| Naturally Aspirated | | | | | | | | | | | | | |
| PKVG, KVGR, PKVGR | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 1207 | RW80PP | | 580 | W80N | | | | | | | | |
| XVG, PVG, JVG, SVG, KVG, PJVG, PSVG | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| KVS, KVR, KVSR w/Precombustion Chamber | 1207 | RW80PP RW77PP | .015 | 580 565 | W80N RW77N | .015 | | | 577 | RHW77N | 552 | RGC77N | |
| NVS, NVK, NVSK W/FIECOIIIDUS(IOII CIIdIIIDEI | 220 | KWIIFF | .015 | 631 | RW78N | .015 | | | 311 | KUMITIN | 332 | RGCITIN | ,015 |
| KVS-AT Thru ET Series | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| | 582 | RW82P | | | | | | | | | | | |
| KVS-FT Series on Thru 1977 | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| Thru 1977 KVR, KVSR | 582 1207 | RW82P RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| THILL 1977 KVK, KVSK | 582 | RW82P | .012 | 339 | KWOJI | .012 | 1204 | KIIVVOOFF | 344 | 1100001 | 040 | KTWOSI | .012 |
| Turbocharged Models | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 1207 | RW80PP | | 580 | W80N | . | | | | | | | |
| TVS, TVR, SVS, KVT, KVH | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | .012 |
| PULSE GENERATOR IGNITION | 582 | RW82P | | | | | | | | | | | |
| KVS, PKVG, KVGR, PKVGR | 1207 | RW80PP | .012 | 559 | RW83F | .012 | 1204 | RHW80PP | 544 | HW83F | 645 | RTW83F | ,012 |
| | 582 | RW82P | | | | | | | | | | |] |
| INTERNATIONAL | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Light Service | | | | | | | | | | | | | |
| U175, UC175, UC200, UC221, UC263 | | | | 549 | D18Y | .025 | | | | | | | |
| U220, UB220, U240, UB240 | | | | 10 | J12YC | .030 | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 823 10 | J6C J12YC | .030 | | | | | | | |
| 0300, 06300, 07343, 0372, 07392 | | | | 823 | J6C | .030 | | | | | | | |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | . | | | | | | | |
| UC301, U164, U169, U281 | | | | 549 | D18Y | .025 | | | | | | | |
| UC60, U123, UC135, UC135B, UC153 | | | | 549 | D18Y | .025 | | | | | | | |
| UR501, RV549, U269, UR372 | | | | 14 10 | RJ12YC J12YC | .030 | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | . | | | | | | | |
| Normal Service | | | | | | . | | | | | | | |
| | | | | | | 1 | | | | | | | |





| | PR | EMIUM LONG I | LIFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"-20 | | GRAL COIL E 13/16"-20 | |
|--|-------|--------------|------|------------|---------------------------|------|-------|-------------------------|-------|--------------------|-------------|--------------------------|------|
| MAKE | STOCK | PLUG | CAR | STOCK | PLUG | CAR | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | CAR |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| INTERNATIONAL | | | | | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Normal Service | | | | | | | | | | | | | |
| C-152, C-196, C-304, C-345, C-392 | | | | 14 | RJ12YC | .030 | | | | | | | |
| C-446 | | | | 304 | J12YC RS9YC | | | | | | | | |
| 0-440 | | | | 408 | RS14YC | .033 | | | | | | | |
| C-537, C-605 | 530 | RN79G | .015 | 322 | RN11YC4 | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | 302 | N11YC | | | | | | 540 | RTN79G | |
| C-549 | | | | 102 | RJ6C | .030 | | | | | | | |
| T040 | | | | 823 | J6C | | | | | | | | |
| T340 U164, U169, U175 | | | | 509 516 | D9 D16 | .025 | | | | | | | |
| 0 104, 0 109, 0 173 | | | | 555 | UD16 | .023 | | | | | | | |
| U164, U169, U175 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| U2, U2A, UC60, UC135 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| U2, U2A, UC60, UC135 Shielded | | | | | | | | | 563 | XED16 | | | .025 |
| UB240, UV266 | | | | 102 | RJ6C | .030 | | | | | | | |
| LIDAGED LIDAGE | | | | 823 | J6C | | | | | | | | |
| UC135B, UC153 | | | | 516 555 | D16 UD16 | .025 | | | | | | | |
| UC135B, UC153 Shielded | | | | | 0010 | | | | 563 | XED16 | | | .025 |
| UC135B, UC153, UC175 | | | | 526 | RD15Y | .025 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UC175, UC200, UC301 | | | | | | | | | 516 | D16 | | | .025 |
| | | | | | | | | | 555 | UD16 | | | |
| UC175, UC200, UC301 Shielded | | | | | | | | | 563 | XED16 | | | 025 |
| UC200, UC221, UC263, UC301, T6 | | | | 526 | RD15Y | .025 | | | | | | | |
| UC221, UC263 | | | | 515 516 | D15Y D16 | | | | | | | | |
| 00221, 00203 | | | | 555 | UD16 | .025 | | | | | | | |
| UC221, UC263 Shielded | | | | | 99 : 9 | | | | 563 | XED16 | | | .025 |
| UR372, UV304, UV345, UV392 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| Severe Service | | | | | | | | | | | | | |
| C-446 | | | | 304 | RS9YC | .035 | | | | | | | |
| | | | | 408 | RS14YC | | | | | | | | |
| U175, UC175, UC200, UC221, UC263 U220, UB220, U240, UB240 | | | | 506 10 | J12YC | .025 | | | | | | | |
| 0220, 08220, 0240, 08240 | | | | 823 | J6C | .030 | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC301, U164, U169, U264, U281 | | | | 506 | D6 | .025 | | | | | | | |
| UC60, U123, UC135, UC135B, UC153 | | | | 506 | D6 | .025 | | | | | | | |
| UR501, UV549, U269, UR372 | | | | 102 823 | RJ6C J6C | .030 | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| NATURAL & LP-GAS | | | | | | | | | | | | | |
| C-152, C-196, C-304, C-345, C-392 | | | | 14 | RJ12YC | .030 | | | | | | | |
| | | | | 10 | J12YC | | | | | | | | |
| C-446 Normal Service | | | | 408 | RS14YC | .020 | | | | | | | |
| C-446 Severe Service | | DN700 | | 304 | RS9YC | .020 | | DUNZOO | | | 4000 | DTNZOVAC | |
| C-537, C-605 | 530 | RN79G | .015 | 322 120 | RN11YC4 N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| | | | | 102 | RJ6C | .030 | | | | | | 11111/30 | |
| | | | | 823 | J6C | .000 | | | | | | | |
| U175, UC153, UC175 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| U220, UB220, U240, UB240 | | | | 10 | J12YC | .030 | | | | | | | |
| 11300 LID300 LN/3/5 LISTO LN/600 | | | | 823 | J6C | | | | | | | | |
| U308, UB308, UV345, U372, UV392 | | | | 10 823 | J12YC | .030 | | | | | | | |
| | | | | 023 | J6C | | | | | | | | |



| | PR | EMIUM LONG I | LIFE | | COPPER PLUS UNSHIELDED | | | PREMIUM ELDED 3/4"-20 | | HIELDED 3/4"- 20 | | GRAL COIL E 13/16"-20 | |
|---|------------|--------------------|------|------------|---------------------------|------|------------|--------------------------|------------|----------------------------|-------------|--------------------------|--------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| | NO. | TYPE | GAI | NO. | TYPE | GAI | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAI |
| INTERNATIONAL | | | | | | | | | | | | | |
| NATURAL & LP-GAS U817, U817B, UT817, UT817B 14mm Heads | 1224 | RL85G | .015 | 535 | RL15B | .015 | 551 | RHL79G | | | 556 | RTL85G | ,015 |
| U817, U817B, UT817, UT817B 14mm Heads | 1224 | KLOJG | | 129 | RF10C | .015 | 331 | KILIBO | | | | KILOJO | 013 |
| UB264, UV266, U282, UV304 | | | | 10 | J12YC | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| UC135, UC135B, U164, U169 | | | | 526 | RD15Y | .015 | | | | | | | |
| 110004 110000 110004 11004 11004 | | | | 515 | D15Y | | | | | | | | |
| UC221, UC263, UC301, U264, U281 | | | | 526 515 | RD15Y D15Y | .015 | | | | | | | |
| UC60, UC200 | | | | 526 | RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| UR501, U269, UR372, UV549 | | | | 102 | RJ6C | .020 | | | | | | | |
| UV401, U450, UR450, UV461, U501 | | | | 823 10 | J6C J12YC | .030 | | | | | | | |
| 0V401, 0450, 0R450, 0V461, 0501 | | | | 823 | J6C | .030 | | | | | | | |
| JENBACHER | | | | | | | | | | | | | |
| BR3 | | | | | | | | | | | | | |
| J208 8-Cyl., J212 12-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| J216 16-Cyl., J312 12-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| J316 16-Cyl., J320 20-Cyl. | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| J612 12-Cyl. After 9/95 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| J612 12-Cyl. Thru 8/95 | 636 | RB77WPC RB76PP | .012 | 643 576 | RB75N RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| 3012 12-0yl. 11llu 0/93 | 1230 | FB77WPCC | | | KD70IN | 012. | | | 024 | I KI IDO IIN | 255 | I KIDITWEGO | 1 .012 |
| J616 16-Cyl. After 9/95 | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| J616 16-Cyl. Thru 8/95 | 226 | RB76PP | .012 | 576 | RB76N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| JLO - ROCKWELL | | | | | | | | | | | | | |
| G49, L35, L77, LV298, MM25, MM40 | 1224 | RL85G | .020 | 874 | RL82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| OAFO II- datad Marsian MO | 4004 | DI 050 | | 811 | L82C | | | DUI 700 | | | | DTI 050 | |
| GA50 Updated Version, V49 | 1224 | RL85G | .020 | 874 811 | RL82C L82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| L101, L152, L197 | | | | 509 | D9 | .025 | | | | | | | |
| L252, L292, L297, L372 | | | | 509 | D9 | .025 | | | | | | | |
| JOHN DEERE | | | | | | | | | | | | | |
| Gasoline | | | | | | | | | | | | | |
| 92, 115, 145, 165, 217, 232 | | | | | | | | | 538 | RH8C | | | .025 |
| | | | | | | | | | 854 | RH10C | | | |
| LUC, LUH, LUW, LUS | | | | | | | | | 854 | RH10C | | | .025 |
| Series TA92, TB92, TA145, TA217 | | | | | | | | | 844 | H10C RH10C | | | ,025 |
| Selies 1A32, 1B32, 1A143, 1A217 | | | | | | | | | 844 | H10C | | | ,023 |
| Natural & LP Gas | | | | | | | | | | | | | |
| 300 Series | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| 341, 400, 500 Series | | | | 514 | D14 | .025 | | | | | | | |
| 400, 500 Series Natural & LP Gas | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 596 596 | RHM77N RHM77N | 223 1201 | RTM77PP RTM78N | .015 |
| 6068NG | | | | | | | | | | | | | |
| 6076AFN30 (150 & 200 h.p.) | 1206 | RC78WP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| 6081NG | | | | | | | | | | | | | |
| 92, 115, 145, 165, 217, 232 | | | | | | | | | 538 | RH8C | | | .025 |
| Stationary Engine Type W, WSP | | | | 518 | W18 | 025 | | | 854 | RH10C | | | |
| | | | | J 10 | VV 10 | .025 | | | | | | | |
| J-W POWER | 220 | DMZZDD | 015 | 206 | DIA/77AI | 045 | | | F77 | DUM77N | 550 | DCC77N | 045 |
| Superburn | 228 | RW77PP | .015 | 206 539 | RW77N W77N | .015 | | | 577 | RHW77N | 552 | RGC77N | .015 |
| Superburn Pre-Cell | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| LISTER PETTER | | | | | | | | | | | | | |
| · | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |





| | PR | EMIUM LONG I | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"-20 | | GRAL COIL E 13/16"- 20 | |
|---|-------------|--------------------|------|------------|---------------------------|------|------------|-------------------------|------------|--------------------|-------------|----------------------------------|------|
| MAKE YEAR and MODEL | STOCK | | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| LISTER PETTER | NO. | TYPE | GAI | NO. | TYPE | GAI | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAI |
| Alpha Series LPWG2, 3 & 4 | | | | 344 | RC9YC | .200 | | | | | | | |
| HR2G, HR3G | | | | 506 625 | D6 D78Y | .015 | | | | | | | |
| LORAIN | | | | | | | | | | | | | |
| 30, 37, 40, 50 | | | | 516 | D16 | .025 | | | | | | | |
| A, L, O, R 7/8"-18 Heads | 1207 | RW80PP | .012 | 555 545 | UD16 W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| HIEVIN | 582 | RW82P | | | | | | | | | | | |
| GSC | | | | 513 | C97B | .025 | | | | | | | |
| H1770, H2165 Normal Service | 1207 | RW80PP | .012 | 513 545 | C97B W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | ,012 |
| | 582 | RW82P | | | | | | | | | | | |
| H1770, H2165 Severe Service | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| H795 Severe Service | 1207 582 | RW80PP RW82P | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| HT333, HC333, H795, GSD, GSDH | 1207 | RW80PP RW82P | .012 | 510 545 | W10 W85N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| L333, L795, L1770, L2165, F280 | | INVOZI | | 589 | W89D | .025 | | | | | | | |
| M.E.P. INDUSTRIES | 000 | DM00M/D00 | 040 | 540 | DMZZNI | 045 | 000 | DUMZOWDOO | 004 | DUNAZON | 000 | DTMZZDD | 045 |
| M.E.P6, -8, -10, -12 | 233 217 | RM82WPCC RM77PP | .012 | 519 566 | RM77N M82N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 583 | RHM78N RHM83N | 223 1201 | RTM77PP RTM78N | .015 |
| MAN NUTZFAHRZEUGE | | | | | | | | | | | | | |
| E 0824 - E 301, E 302 | 530 | RN79G | .012 | | | | | | | | | | |
| E 0826 - E 301, E 302 E 0834 | 530 | RN79G RC78WP | .012 | 1209 | RC78YCC15 | .012 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| E 0836 | 1206 218 | RC78WP RC78PYP | .012 | 1209 | RC78YCC15 | .012 | | | | | | | |
| E 2482, E 2842 E & LE | 530 | RN79G | .012 | | | | | | | | | | |
| E 2843 LN E 2866 DUH03 | 530 642 | RN79G RN79G | .012 | | | | | | | | | | |
| | 642 | RN79G | | | | | | | | | | | |
| E 2866 LUH01 E 2876 | 530 | RN79G RN79G | .012 | | | | | | | | | | |
| MAYTAG | | | | | | | | | | | | | |
| Washing Machines 14mm Heads | | | | 592 | RJ12C | .030 | | | | | | | |
| | | | | 511 | J11C | | | | | | | | |
| 'Multi-Motor' 1/2"-14 Pipe Heads | | | | 525 | 25 | .025 | | | | | | | |
| McCULLOCH All Other Models | | | | 871 | RJ8C | .030 | | | | | | | |
| | | | | 841 | J8C | | | | | | | | |
| Models 77, 99 | | | | 102 823 | RJ6C J6C | .030 | | | | | | | |
| MINNEAPOLIS - MOLINE | | | | . 020 | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| High-Compression 165-4A, 185-4A, 206-4A | | | | 871 | RJ8C | .025 | | | | | | | |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 | RW80PP | .012 | 841 510 | J8C W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| BEU, DU, FEU, GU, GUA, HU | 582 1207 | RW82P RW80PP | .012 | 545 510 | W85N W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A 18mm Hds. CU, KEU, JU, 283-4A, 4256A 7/8"-18 Hds. | 1207 | RW80PP | .012 | 509 510 | D9 W10 | .025 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| LU, MEU, NEU, SEU, TAU, TEU | 582 1207 | RW82P RW80PP | .012 | 545 510 | W85N W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| Low-Compression | 582 | RW82P | | 545 | W85N | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | <u> </u> | <u> </u> | | | | | | | | |



| | PRI | EMIUM LONG L | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HELDED 3/4"-20 | | GRAL COIL E 13/16" -20 | |
|--|-------------|--------------------|------|------------|------------------------|------|------------|-------------------------|-------|-------------------|-------------|--|------|
| MAKE | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| MINNEAPOLIS - MOLINE | | | | ı | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| Low-Compression | | | | 074 | D.100 | 005 | | | | | | | |
| 165-4A, 185-4A, 206-4A | | | | 871 841 | RJ8C J8C | .025 | | | | | | | |
| 220-4, HD220-4A, M220-A4A | | | | 514 | D14 | .025 | | | | | | | |
| 336A-4A, HD425-6A | | | | 514 | D14 | .025 | | | | | | | |
| 403-4A, 605-6A 14mm Hds. | | | | 868 | RJ19LM | .025 | | | | | | | |
| | | <u> </u> | | 861 | J19LM | | | | | | | | |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 582 | RW80PP RW82P | .012 | 510 545 | W10 W85N | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| 800-6A, 1210-12A 14mm Hds. | | !\\\\\ | | 868 | RJ19LM | .025 | | | | | | | |
| | | | | 861 | J19LM | | | | | | | | |
| All Above Models w/18mm Heads | | | | 514 | D14 | .025 | | | | | | |] |
| BEU, DU, FEU, GU, GUA, HU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| OU 1/5 I II 000 44 405 A | 582 | RW82P | | 545 | W85N | | 4004 | RHW80PP | | DUNACON. | | DTMOON | |
| CU, KEU, JU, 283-4A, 4256A | 1207 582 | RW80PP RW82P | .012 | 510 545 | W10 W85N | .015 | 1204 | KHWWUPP | 532 | RHW80N | 638 | RTW80N | .015 |
| HD504-6A, HD425-6A | | ! ! ! ! ! ! | | 514 | D14 | .025 | | | | | | | |
| HD504A-6A, 605A-6A, 605B-6A | | | | 514 | D14 | .025 | | | | | | | |
| HD605-6A, 800-6A | | | | 514 | D14 | .025 | | | | | | |] |
| HD800-6A, HD800A-6A, 1210-12A | 233 | RM82WPCC | .012 | 514 | D14 | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | 010 | 519 | RM77N | | 222 | RHM78PP | | RHW80N | 1201 | RTM78N | |
| LU, MEU, NEU, SEU, TAU, TEU | 1207 582 | RW80PP RW82P | .012 | 510 545 | W10 W85N | .015 | 1204 | RHW80PP | 532 | KUMOON | 638 | RTW80N | .015 |
| NATURAL & LP GAS | .002 | ! ' ! ' ! | | | | | | | | | | | |
| 206-4A, 220-4, HD220-4A, M220-A4A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 283-4A, HD504-6A | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| 2204 44 110405 04 1105044 04 | 217 | RM77PP | | | DM77N | | 222 | RHM78PP | | DUMZON | 1201 | RTM78N | |
| 336A-4A, HD425-6A, HD504A-6A | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 403-4A, 605-6A, 1918-4A, 2714-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| 425-6A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| 0054 04 005D 04 11D005 04 | 582 | RW82P | | 545 | W85N | | | DUMZOW DOO | | DUMZON. | | DTM77DD | |
| 605A-6A, 605B-6A, HD605-6A | 233 217 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 800-6A, 1210-12A, 1600-12A | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| BEU, DU, FEU, GU, GUA, HU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| CU, KEU, JU, 283-4A, 4256A | 1207 582 | RW80PP RW82P | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| HD800-6A. HD800A-6A. 1210-12A | 233 | RM82WPCC | .012 | 545 519 | W85N RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | |
| 115000 07, 1150007 07, 1210 127 | 217 | RM77PP | .012 | 013 | TXWITTY | .020 | 222 | RHM78PP | 204 | TATIMITOIN | 1201 | RTM78N | 010, |
| LU, MEU, NEU, SEU, TAU, TEU | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| NORDBERG (HATCH & KIRK) | | | | | | | | | | | | | |
| 4FG Shielded Ignition w/ Pulse Generator | | | | | | | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 4FG Unshielded Ignition | | DD70DD | | 542 | B86N | .012 | | | | DUDO4N | | DTDZZWDOO | |
| FSE96 Natural Gas Power Chief 4FG | 226 | RB76PP | .012 | 576 514 | RB76N D14 | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| RTG Series Natural Gas | | | | 542 | B86N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | |
| O.M.C. | | | | | | | | | | | | | |
| Single And Twin Cylinder | | | | 22 | RF11YC | .030 | | | | | | | |
| OILWELL | | | | | | | | | | | | | |
| 1/2"-14 Pipe Heads | | | | 525 | 25 | .025 | | | | | | | |
| 18mm Heads | | | | 597 | K97F | .025 | | | | | | | |
| OLIN | | | | | | | | | | | | | |
| All Models OLIN | | | | 525 | 25 | .025 | | | | | | | |
| PERKINS | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| | 1200 | | | | | | | | | | | | |





| | PR | EMIUM LONG L | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"- 20 | | GRAL COIL E 13/16"-20 | |
|---|-------|--------------------|------------|------------|---------------------------|----------|------------|-------------------------|------------|----------------------------|-------------|--------------------------|------------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| | NO. | TYPE | OAI | NO. | TYPE | OAI | NO. | TYPE | NO. | TYPE | NO. | TYPE | OAI |
| PERKINS 4000 Series | 634 | RB77WPCC | .012 | | | | | | | | | | |
| 4000 Series | 636 | RB77WPCC | .012 | | | | | | | | | | |
| 900 Series | 244 | RC78PYP21 | .021 | | | | | | | | | | |
| G4-203 | | | | 322 | RN11YC4 | .025 | | | | | | | |
| | | | | 302 | N11YC | | | | | | | | |
| G4-236 | | | | 404 38 | RN12YC N12YC | .025 | | | | | | | |
| RATHBUN JONES | | | | | NIZIC | | | | | | | | |
| All Models RATHBUN JONES | | | | 597 | K97F | .020 | | | | | | | |
| Models w/G-402 Reducing Bushing | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| ROBIN (See Fuji-Robin) | | | | | | | | | | | | | |
| ROILINE | | , | | | , | | | | | | | | |
| ENGINES W/INTEGRAL COIL | | | | | | | | | | | | | |
| F1500, H2000, H2470 (Heavy Load) | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| F1500, H2000, H2470 (Light Load) | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| H540, H844, H570, H884 | 217 | RM77PP RM82WPCC | .012 | 571 | RM79F | .015 | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | ,015 |
| 1340, 11044, 11370, 11004 | 217 | RM77PP | .012 | 3/1 | KIVI 9F | .015 | 222 | RHM78PP | 234 | KINITON | 1201 | RTM78N | ,015 |
| L3230, L3460, L4000 (Heavy Load) | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | ,015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| L3230, L3460, L4000 (Light Load) | 233 | RM82WPCC | .012 | 571 | RM79F | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | .217 | RM77PP | | | | | . 222 | RHM78PP | | | 1201 | RTM78N | |
| GASOLINE A114, A288 | | | | 592 | RJ12C | .030 | | | | | | | |
| A114, A200 | | | | 511 | J11C | .030 | | | | | | | |
| H540, H844, H884 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| TH884, H570, TH570 | | | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | . | | | | | | | |
| High Compression Engines F1500, F1850, H2000, H2150, H2470 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| 1 1300, 1 1030, 112000, 112130, 112470 | 217 | RM77PP | .012 | 319 | IXIVI77IN | .023 | 222 | RHM78PP | 550 | ED14 | 1201 | RTM78N | .013 |
| L3000, L3230, L3460, L4000 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | 572 | XED14 | 1201 | RTM78N | |
| Low Compression Engines | | | | | | | | | | | | | |
| F1500, F1850, H2000, H2150, H2470 | 233 | RM82WPCC RM77PP | .012 | 519 | RM77N | .025 | 236 222 | RHM78WPCC RHM78PP | 234 550 | RHM78N | 223 1201 | RTM77PP | .015 |
| L3000, L3230, L3460, L4000 | 233 | RM82WPCC | .012 | 519 | RM77N | .025 | | RHM78WPCC | | RHM78N | 223 | RTM78N RTM77PP | |
| | 217 | RM77PP | .0.2 | 0.0 | | .020 | 222 | RHM78PP | 572 | XED14 | 1201 | RTM78N | 10.0 |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| H540, H570, TH570, H884, TH884 | | | | 825 | J4C | .015 | | | | | | | |
| ROLLS ROYCE | | | | | | | | | | | | | |
| B Gas | | | | | | | | | | | | | |
| KV-G4 | | | | | | | | | | | | | |
| K Gas | | | | | | | | | | | | | |
| KV-G4 | | | | | | | | | | | | | |
| ROPER | | | | 054 | D IO I | 005 | | | | | | | |
| Model 1900, CA301AR Model 3700 | | | | 851 849 | CJ6 | .025 | | | | | | | |
| ROTAX | | | | | 0,00 | | | | | | | | |
| 300cc Normal Service | | | | 509 | D9 | .025 | | | | | | | |
| 370cc Normal Service | 1224 | RL85G | .020 | 830 | RL86C | .023 | 551 | RHL79G | | | 556 | RTL85G | ,020 |
| | | | | 306 | L86C | | | | | | | |] |
| 370cc Severe Service | 1224 | RL85G | .020 | 874 | RL82C | .020 | 551 | RHL79G | | | 556 | RTL85G | .020 |
| | | <u> </u> | l. <u></u> | 811 | L82C | <u> </u> | | <u></u> | l. <u></u> | <u></u> | <u></u> | <u></u> | l. <u></u> |
| RUSTON | | | | | | | | | | | | | |
| RK270GS Series | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | <u></u> | | | |
| SACHS | | | | | | | | | | | | | |
| | | | | | | | | | | | | | |



| | PR | EMIUM LONG I | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM ELDED 3/4"-20 | | HIELDED 3/4"- 20 | | GRAL COIL E 13/16"-20 | |
|---|-------------|---------------------|----------|------------|---------------------------|---------|-------|--------------------------|------------|----------------------------|-------------|--------------------------|------|
| MAKE YEAR and MODEL | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| SACHS | NO. | TYPE | OA! | NO. | TYPE | OA! | NO. | TYPE | NO. | TYPE | NO. | TYPE | OAI |
| 504 Series, 505 Series, 508 | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| | | | | 306 | L86C | | | | | | | | |
| Stamo 277, 281, 293 Stamo SL-2 | 1224 | RL85G | .025 | 509 874 | D9 RL82C | .025 | 551 | RHL79G | | | 556 | RTL85G | ,025 |
| otanio oc-2 | 1224 | INLUGO | .020 | 811 | L82C | .025 | 331 | INIL/30 | | | | | ,020 |
| SACM | | | | | | | | | | | | | |
| Model 175 1996 & up | 1206 218 | RC78WP RC78PYP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| Model UD30 Thru 1994 | 1206 | RC78WP | .015 | 1209 | RC78YCC15 | .015 | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| SOLAR TURBINE | | | | | 1 | | | | 550 | ED44 | | | 005 |
| Mars, Centaur | | | | | | | | | 550 572 | ED14 XED14 | | | .025 |
| Sparton (Igniter) | 627 | F-6A-13 | | | | | | | | | | | |
| Type H, Tauros | 627 | F-6A-13 | | | | | | | 550 | ED14 | | | .025 |
| .,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | <u></u> . | | <u> </u> | <u></u> | <u> </u> | <u></u> | | | 572 | XED14 | <u></u> | | |
| STOVER | | | | | | | | | | | | | |
| 1/2"-14 Pipe Heads | | | | 525 518 | 25 W18 | .025 | | | | | | | |
| CT-1, -2, -3, -4 DV1, DV2, DVA2, XVH, 502 14mm Hds. | | | | 310 | WIO | .025 | | | 587 | H8C | | | .025 |
| | | | | | | | | | 587 | H8C | | | |
| DV1, DV2, DVA2, XVH, 502 7/8"-18 Hds. DVA, DVA1 | | | | 518 514 | W18 D14 | .025 | | | | | | | |
| K-1, K-6, K-8, MV-2, MV-5, MV-6, MV-7 | | | | 518 | W18 | .025 | | | | | | | |
| MVA, IXA | | | | 569 | W14 | .030 | | | | | | | |
| STRUCK | | | | 074 | D 100 | 000 | | | | | | | |
| Mini-Dozer | | | | 871 841 | RJ8C J8C | .030 | | | | | | | |
| SUPERIOR | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| 1706G2, 1712G1 | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 1965-58 GX825 Series | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | | | 223 | RTM77PP | .015 |
| 4070 00 1/0005 0 | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | DUMOON | 1201 | RTM78N | |
| 1970-63 VG825 Series*86 | 1207 582 | RW80PP RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| 1970-63 VGT825 Series*86 | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| 1973-39 80G Series | 582 | RW82P | | 580 514 | W80N D14 | .025 | | | 572 | XED14 | | | ,025 |
| 1973-39 80GX Series | | | | 514 | D14 | .025 | | | 572 | XED14 | | | .025 |
| 1979-65 GT825 Series | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC RHM78PP | 234 | RHM78N | 223 | RTM77PP | .015 |
| 1980-46 G510 Series | 217 | RM77PP RM82WPCC | .012 | 529 519 | D14N RM77N | | 222 | RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 1980-51 G825 Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-61 GT510 Series | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | | | 223 | RTM77PP | .015 |
| 4000 70 007 0 | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 1980-76 SGT Series | 233 217 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 | RHM78WPCC RHM78PP | | | 223 1201 | RTM77PP RTM78N | .015 |
| 1980-79 GTL Series | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| 1991-81 GTLA/B Series | 217 | RM77PP | | 529 625 | D14N D78Y | .015 | 222 | RHM78PP | | | 1201 | RTM78N | |
| 1991-81 GTLA/B Series (Light Use) | | | | 526 | RD15Y | .015 | | | | | | | |
| 1001 91 SCTA/D Sories | | | | 515 | D15Y | | | | | | | | |
| 1991-81 SGTA/B Series 1991-81 SGTLA/B Series (Light Use) | | | | 625 526 | D78Y RD15Y | .015 | | | | | | | |
| | | | | 515 | D15Y | | | | | | | | |
| 2400 G Series | | | | 643 | RB75N | .012 | | | | | | | |
| TELEDYNE (See Continental or Wisco | | | | | | | | | | | | | |
| TRANSAMERICA DELAVAL (See Delo | ival) | | | | | | | | | | | | |
| | | | | | 1 | | | | | | | | |





| | PR | EMIUM LONG L | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HELDED | | GRAL COIL E 13/16"- 20 | |
|--|-----------------|---------------------|------|------------|---------------------------|------|------------|-------------------------------------|------------|--------------|-------------|----------------------------------|------|
| MAKE YEAR and MODEL | STOCK | | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| | NO. | TYPE | GAF | NO. | TYPE | GAF | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAF |
| UNIVERSAL 18mm Heads | | | | 514 | D14 | .025 | | | | | | | |
| 7/8"-18 Heads | | | | 569 | W14 | .030 | | | | | | | |
| Atomic Four | | | | 871 | RJ8C | .030 | | | | | | | |
| VOLKSWAGEN | | | | 841 | J8C | | | | | | | | |
| ADF, ADH w/1.8L Engs. | | | | 415 | RN9YC | .035 | | | | | | | |
| | | | | 300 | N9YC | | | | | | | | |
| EA111 w/1.0L Engs. | | | | 415 | RN9YC N9YC | .035 | | | | | | | |
| Models 122, 124A Gasoline | 1224 | RL85G | .025 | 830 306 | RL86C L86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| Models 122, 124A Natural & LPG | 1224 | RL85G | .025 | 874 811 | RL82C L82C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| WARTSILA | | | | 011 | LOZO | . | | | | | | | |
| Model 175 After 1994 | 1206 | RC78WP | .015 | 1209 | RC78YCC15 | | | | | | | | |
| | 218 | RC78PYP | | | | | | | | | | | |
| Model 34SG | 1230 | FB77WPCC | | | | | | | | | | | |
| Model 34SG | 1230 | FB77WPCC | | | | | | | | | | | |
| Model W20V | | | | | | | | | | | | | |
| M | 1230 | FB77WPCC | | -0- | BB7700 | | | | 004 | DUDGAN | 005 | | |
| Model W25SG, W28SG, W34SG | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| WAUKESHA | | | | | | | | | | | | | |
| AT SERIES | | | | | | | | | | | | | |
| Inline-8 | | | | | | | | | | | | | |
| 8L-AT25GL/AT27GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| | 1230 | FB77WPCC | | | | | | : : : : : : : : : : : : : : : : : : | | | | | |
| 8L-AT25GL/AT27GL (13/16" Reach Heads) | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| V-12 | 636 | RB77WPC | | 643 | RB75N | . | | | | | | | |
| 12V-AT25GL/AT27GL (1/2" Reach Heads) | 233 | RM82WPCC | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 12V-AT25GL/AT27GL (13/16" Reach Heads) | 1230 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| 12V-A123GE/A127GE (13/10 Reaciffleads) | 636 | RB77WPCC | .012 | 643 | RB75N | .012 | | | 024 | KIIDOIN | 233 | KIB//WFCC | ,012 |
| GASOLINE | | | | | | | | | | | | | |
| 14mm Heads 135G, 135GK, 135GKB, 135GZB | | | | | | | | | 538 | RH8C | | | ,025 |
| | | | | | | | | | 587 | H8C | | | |
| 135GZ, 140GZ, 145GZ, F554G, F817G | | | | 871 | RJ8C J8C | .030 | | | 557 | XEJ8 XEJ8 | | | .025 |
| l 140G, 140GK, 140GKB, 140GZB | | | | 841 | | | | | 557 | RH8C | | | .025 |
| | | | | | | | | | 587 | H8C | | | |
| 145G, 145GK, 145GKB, 145GZB | | | | | | | | | 538 587 | RH8C H8C | | | .025 |
| Cranes, Carriers, Power Shovels | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| F265GA, F283G, VRG265 | | | | 841 322 | J8C RN11YC4 | .025 | | | 557 | XEJ8 | | | |
| FO JOY CDZ CMZA CODICD CIMAL | | | | 302 | N11YC | | | | | VE 10 | | | |
| FC, ICK, 6BZ, 6MZA, 6SRKR, 6WAK | | | | 871 841 | RJ8C J8C | .030 | | | 557 557 | XEJ8 XEJ8 | | | .025 |
| Generator Sets | | | | 871 | RJ8C | .030 | | | 557 | XEJ8 | | | .025 |
| H540, H570, H844, H884, H884G | | | | 102 823 | J8C RJ6C | .025 | | | 557 | XEJ8 | | | |
| VRG220, VRG330 | 530 | RN79G | .015 | 823 404 | J6C RN12YC | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | ,015 |
| VRG283, VRG310 | | | | 322 | RN11YC4 | .025 | | | | | 540 | RTN79G | |
| 18mm Heads | | | | 302 | N11YC | . | | | | | | | |



| | PR | EMIUM LONG L | LIFE | | COPPER PLUS UNSHIELDED | | | PREMIUM ELDED 3/4"-20 | | HIELDED 3/4"- 20 | | EGRAL COIL E 13/16"-20 | |
|--|-------|--------------------|------|------------|---------------------------|----------|-------|--------------------------|-------|----------------------------|-------|---------------------------|----------|
| MAKE | STOCK | PLUG | GAP | STOCK | PLUG | GAP | STOCK | PLUG | STOCK | PLUG | STOCK | PLUG | GAP |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| WAUKESHA | | | | 1 | | | | | | | | | |
| GASOLINE | | | | | | | | | | | | | |
| 18mm Heads | | | | | | | | | | | | | |
| 140GK, 140GS, 145GK, 145GS | | | | 516 | D16 | .025 | | | | | | | |
| 180G, 180GB, 180GL | | | | 555 514 | UD16 D14 | .025 | | | | | | | |
| 180GS, 185GS, 190GS, FC | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 555 | UD16 | | | | | | | | |
| 185GL, 185GLB, 190G, 190GL, 190GLB | | | | 514 | D14 | .025 | | | | | | | |
| 195G, 195GK, 195GKA, 195GL | | | | 514 | D14 | .025 | | | | | | | |
| 6BZ, LRORB, VLRORB, ICK | | | | 514 | D14 | .025 | | | | | | | |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK | | | | 514 | D14 | .025 | | | | | | | |
| 6NKR, 6NKRB, 6SRKR, 6WAK, 6WAKB CFR | | | | 514 | D14 D16 | .025 | | | | | | | |
| OFR | | | | 516 555 | UD16 | .025 | | | | | | | |
| D155G, D176G, VRG232 | | | | 516 | D16 | .025 | | | | | | | |
| | | | | 563 | XED16 | | | | | | | | |
| F1197GR, VRG155 | | | 1 | 514 | D14 | .025 | | | | | | | |
| | | | | 572 | XED14 | | | | | | | | |
| 7/8"-18 Heads | | | | | | | | | | | | | |
| 6LRO, 6SRKR, LR0RB, XAH | | | | 569 | W14 | .030 | | | | | | | |
| INTERMEDIATE SERIES | | | | 544 | B44 | 005 | | | | | | | |
| F1197G F1950GR | 233 | RM82WPCC | .012 | 514 519 | D14 RM77N | .025 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | |
| 1 1950GK | 217 | RM77PP | .012 | 566 | M82N | .013 | 222 | RHM78PP | 204 | INTIVITOR | 1201 | RTM78N | ,013 |
| 18mm Heads | .= | | | | | | | | | | | | |
| 140GK, 145GK, FC | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | <u>.</u> |
| 180G, 180GB, 180GKB, 185GLB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 190G, 190GLB, 196G, 195GK | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| L | 217 | RM77PP RM82WPCC | .012 | 529 519 | D14N RM77N | | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | |
| OBZ, OLRZ, OLRZB, OWIZA, OWIZR, ICK | 217 | RM77PP | .012 | 529 | D14N | .015 | 222 | RHM78PP | 234 | KINITON | 1201 | RTM78N | ,015 |
| 6NK, 6WAK, 6WAKB, NKRB, WAKR, LRORB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| F1197GRSI, F1905GRSI, Generator Set | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | . 222 | RHM78PP | | | 1201 | RTM78N | |
| F1850G, H2475G, L3711G LPG | | | | 509 | D9 | .025 | | | | | | | |
| F1850G, H2475G, L3711G Natural Gas | 233 | DM82\N/DCC | .012 | 514 519 | D14 RM77N | .025 | 236 | DHM78\MDCC | 234 | | 223 | DTM77DD | |
| F2894G, F2894GRSI, F3520G, L5100GR | 217 | RM82WPCC RM77PP | .012 | 566 | M82N | .013 | 222 | RHM78WPCC RHM78PP | 204 | KHM/8N | 1201 | RTM77PP RTM78N | ,013 |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | 509 | D9 | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | <u>.</u> |
| L5100GRSI, L5788GR | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 566 | M82N | | 222 | RHM78PP | | DI 11 15 2 | 1201 | RTM78N | |
| L5788GRSI, L7040G | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| L7042GSIE, F3521GSIE | 217 | RM77PP RM82WPCC | .012 | 566 519 | M82N RM77N | | 236 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | |
| 2.0 12 001E, 1 002 1 001E | 217 | RM77PP | .012 | 019 | I SIVII I IN | .010 | 222 | RHM78PP | 204 | TA IIVITOIN | 1201 | RTM78N | ,010 |
| VRN232, VRN155 | | | | 514 | D14 | .025 | | | | | | |] |
| 7/8" - 18 HEADS | | | | [|] | | | | | | | | 1 |
| 6SRKR, XAH, LRORB | 1207 | RW80PP | .012 | 510 | W10 | .015 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .015 |
| | 582 | RW82P | | 545 | W85N | | | | | | | | |
| Inline-6 | | | | | | | | | | | | | |
| F817G | | | | 102 | RJ6C | .030 | | | | | | | |
| VSC Sorios | | | | 823 | J6C | | | | | | | | |
| VSG Series F11FG F11GSI/GSID | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | ,015 |
| 1 11 01 11001/00ID | 330 | TAN 3G | .013 | | | | 313 | 14114730 | | | 540 | RTN79G | ,013 |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 14mm Heads | | | | | | | | | | | | | |
| 135G, 140G, 145G | | | | 102 | RJ6C | .020 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | |
| | | | | | | | | | | | | | |
| | | | | I | 1 | <u> </u> | | | | | | | |





| | PRI | EMIUM LONG L | IFE | | COPPER PLUS | | | PREMIUM | | HIELDED | | GRAL COIL | |
|--|--------------------|---------------------------------------|------|------------|--------------------|------|------------|----------------------|-------|----------------|-------------|--------------------|------|
| MAKE | STOCK | PLUG | | STOCK | UNSHIELDED PLUG | 0.15 | STOCK | PLUG | STOCK | /4"-20 PLUG | STOCK | FLUG | |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| WAUKESHA | | | | | | ı | | | | | | | |
| NATURAL & LP GAS | | | | | | | | | | | | | |
| 14mm Heads 135GZ, 140GZ, 145GZ | | | | 102 823 | RJ6C J6C | .020 | | | | | | | |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | | | .025 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| ICK, F554G, H884G | | | | 102 823 | RJ6C J6C | .020 | | | | | 940 | 1,1111,30 | |
| P2154G, P2154GSI | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| VRG220, VRG330 | 530 | RN79G | .015 | 123 120 | RN5C N5C | .025 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .015 |
| VRN265, VRN283, VRN310 | 530 | RN79G | .020 | 123 120 | RN5C N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| VGF SERIES Inline-6 | 1230 | FB77WPCC | | | | | | | | | | | |
| F18G, F18GL/GLD | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| Inline-8 | 1230 | FB77WPCC | | | 1 | | | | | | | | |
| H24G, H24GL/GLD | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| V-12 | 1230 | FB77WPCC | | | | | | | | | | | |
| L36GL/GLD | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| V-16 | 1230 | FB77WPCC | | | | | | | | | | | |
| P48GL/GLD | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| VHP SERIES | . 000 | I I I I I I I I I I I I I I I I I I I | | | I INDIGIN | | | | | | | | |
| Inline-6 2895GL (1/2" Reach Heads) | 233 | RM82WPCC | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 1230 | RM77PP FB77WPCC | | | | | . 222 | RHM78PP | | | 1201 | RTM78N | |
| 2895GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 3521GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 3521GL (13/16" Reach Heads) | 1230 634 | FB77WPCC RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| F2895G, F2895GSI | 233 | RB77WPC RM82WPCC | .012 | 643 519 | RB75N RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| F3521G, F3521GSI | 217 | RM77PP RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78PP RHM78WPCC | 234 | RHM78N | 223 | RTM78N RTM77PP | .015 |
| V-12 | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 5108GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 222 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 5108GL (13/16" Reach Heads) | 1230 634 | FB77WPCC RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 5790GL (1/2" Reach Heads) | 636 233 | RB77WPC RM82WPCC | .012 | 643 640 | RB75N RM77N | .012 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 1230 | RM77PP FB77WPCC | | | | | . 222 | RHM78PP | | | 1201 | RTM78N | |
| 5790GL (13/16" Reach Heads) | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 7042GL (1/2" Reach Heads) | 233 217 | RM82WPCC RM77PP | .012 | 640 | RM77N | .012 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP RTM78N | .012 |
| 7042GL (13/16" Reach Heads) | 634 636 | FB77WPCC RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |



| | PR | EMIUM LONG I | IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"- 20 | | EGRAL COIL E 13/16" -20 | |
|--|--------------------|---------------------|------|--------------|---------------------------|------|--------------|-------------------------|--------------|----------------------------|--------------|---|------|
| MAKE YEAR and MODEL | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | PLUG TYPE | GAP | STOCK NO. | | STOCK NO. | PLUG TYPE | STOCK NO. | PLUG | GAP |
| WAUKESHA | NO. | ITFE | | NO. | ITFE | | NO. | TYPE | NO. | ITPE | NO. | TYPE | |
| VHP SERIES | | | | | | | | | | | | | |
| V-12 | | | | | | | | | | | | | |
| L5108G, L5108GSI, L5790G | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| L5790GSI, L7042G, L7042GSI | 217 | RM77PP RM82WPCC | .012 | 519 | RM77N | .015 | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | .015 |
| L3790G31, L7042G3, L7042G31 | 217 | RM77PP | .012 | 319 | IXIVII I IN | .013 | 222 | RHM78PP | 204 | IXI IIVI7 OIN | 1201 | RTM78N | .013 |
| V-16 | | | | | | | | | | | | | |
| | 1230 | FB77WPCC | | | | | | | | | | | |
| 5115GL | 634 636 | RB77WPCC RB77WPC | .012 | 237 643 | RB77CC RB75N | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | .012 |
| 9390G, P9390GSI | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 9390GL (1/2" Reach Heads) | 233 | RM82WPCC | .012 | 640 | RM77N | .012 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .012 |
| | 217 1230 | RM77PP FB77WPCC | | | | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 9390GL (13/16" Reach Heads) | 634 | RB77WPCC | .012 | 237 | RB77CC | .012 | | | 624 | RHB81N | 235 | RTB77WPCC | ,012 |
| | 636 | RB77WPC | | 643 | RB75N | | | | | | | | |
| VSG SERIES | | | | | | | | | | | | | |
| 18mm Heads | 000 | DI IONIA/DOO | 0.40 | -10 | D14771 | | 200 | DUM TOWN DOO | 004 | D. 11.4701. | | DT1.1==DD | 045 |
| 140GK, 145GK, FC | 233 | RM82WPCC RM77PP | .012 | 519 529 | RM77N D14N | .015 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 1201 | RTM77PP RTM78N | .015 |
| 180G, 180GB, 180GKB, 185GLB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 190G, 190GLB, 195G, 195GK | 233 | RM82WPCC RM77PP | .012 | 519 | RM77N | .015 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 223 1201 | RTM77PP | .015 |
| 6BZ, 6LRZ, 6LRZB, 6MZA, 6MZR, ICK | 217 | RM82WPCC | .012 | 529 519 | D14N RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM78N RTM77PP | |
| 32, 32, 4, 32, 42, 3, 3, 4, 3, 4, 3, 4, 5, 4 | 217 | RM77PP | | 529 | D14N | | 222 | RHM78PP | | | 1201 | RTM78N | |
| 6NK, 6WAK, 6WAKB, NKRB, WAKR, LRORB | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| F1197GRSI, F1905GRSI, Generator Set | 217 | RM77PP RM82WPCC | .012 | 529 519 | D14N RM77N | | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | .015 |
| F1197GKSI, F1903GKSI, Generator Set | 217 | RM77PP | .012 | 319 | KIVI / IN | .015 | 222 | RHM78PP | 234 | KINITON | 1201 | RTM78N | .015 |
| F1850G, H2475G, L3711G LPG | | | | 509 | D9 | .025 | | | | | | | |
| F1850G, H2475G, L3711G Natural Gas | | | | 514 | D14 | .025 | | | | | | | |
| F2894G, F2894GRSI, F3520G, L5100GR | 233 | RM82WPCC RM77PP | .012 | 519 566 | RM77N M82N | .015 | 236 | RHM78WPCC RHM78PP | 234 | RHM78N | 1201 | RTM77PP RTM78N | .015 |
| H1077G, H1077GSI, L1616G, L1616GSI | 530 | RN79G | .015 | 509 | D9 | .025 | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| L5100GRSI, L5788GR | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| L5788GRSI, L7040G | 217 | RM77PP RM82WPCC | .012 | 566 519 | M82N RM77N | .015 | 222 | RHM78PP RHM78WPCC | 234 | RHM78N | 1201 | RTM78N RTM77PP | |
| 20,000,00,2,000 | 217 | RM77PP | .012 | 566 | M82N | .010 | 222 | RHM78PP | | | 1201 | RTM78N | 010 |
| L7042GSIE, F3521GSIE | 233 | RM82WPCC | .012 | 519 | RM77N | .015 | | RHM78WPCC | 234 | RHM78N | 223 | RTM77PP | .015 |
| VRN232, VRN155 | . 217 | RM77PP | | | D14 | 025 | 222 | RHM78WPCC | | | 1201 | RTM78N | |
| Inline-6 | | | | 514 | D14 | .025 | | | | | | | |
| F11G, F11GSI/GSID | 530 | RN79G | .015 | | | | 575 | RHN79G | | | 1232 | RTN79WYP | .015 |
| | | | | | | | | | | | 540 | RTN79G | |
| WEST BEND | | | | | | | | | | | | | |
| All Other Models (Light Load) | | | | | | | | | 854 | RH10C | | | .025 |
| All Other Models (Normal Load) | | | | | | | | | 538 | H10C RH8C | | | .025 |
| 7 iii Ottici Woddis (Normai Edda) | | | | | | | | | 587 | H8C | | | .020 |
| All Other Models (Severe Load) | | | | 102 | RJ6C | .030 | | | | | | | |
| Models 610, 920 | | | | 823 874 | J6C RL82C | .030 | | | | | | | |
| Models 610, 820 | | | | 811 | L82C | .030 | | | | | | | |
| WHITE ENGINES, INC. (See Hercules | 3) | | | | | | | | | | | | |
| WHITE-SUPERIOR (See Superior) | | | | | | | | | | | | | |
| WISCONSIN | | | | | | | | | | | | | |
| ACN, AEN, AENLD | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| AEH, AENL, AENS, AFH, AGH, AHH | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | . | | | | | | | |





| | PRI | EMIUM LONG I | IFE | | COPPER PLUS | | | PREMIUM | - | HIELDED | | GRAL COIL | |
|--|-------------|-----------------|------|------------|--------------------|----------|---------|------------|-------|----------------|-------------|---------------------|------|
| MAKE | STOCK | PLUG | | STOCK | UNSHIELDED PLUG | | STOCK | PLUG | STOCK | /4"-20 PLUG | STOCK | E 13/16"-20 PLUG | |
| YEAR and MODEL | NO. | TYPE | GAP | NO. | TYPE | GAP | NO. | TYPE | NO. | TYPE | NO. | TYPE | GAP |
| WISCONSIN | | | | | | | | | | | | | |
| AGND All 18mm Heads Using LP Gas | | | | 502 | D21 | .025 | | | | | | | |
| BKN, S7D, S8D, S10D, S12D, S14D, TE | | | | 509 516 | D9 D16 | .025 | | | | | | | |
| BINN, 37D, 30D, 310D, 312D, 314D, 1E | | | | 564 | D16J | .000 | | | | | | | |
| TF, TH, THD, TRA10D, TRA12D, THPD, TJD | | | | 516 | D16 | .030 | | | | | | | |
| | | | | 564 | D16J | | | | | | | | |
| THOM, VE4, VF4, VE4, VF4D | | | | 516 564 | D16 D16J | .030 | | | | | | | |
| V460D, V461D, V465D | | | | 404 | RN12YC | .025 | | | | | | | |
| | | | | 38 | N12YC | | | | | | | | |
| VG4D, VH4, VH4D, W2-280 | | | | 516 | D16 | .030 | | | | | | | |
| VH4DM, TR10D, W4-1770, W2-1230 | | | | 564 516 | D16J D16 | .030 | | | | | | | |
| V114DW, 11(10D, W4-1770, W2-1230 | | | | 564 | D16J | .030 | | | | | | | |
| W2-1230 Serial #5996538 & Up | 530 | RN79G | .020 | 123 | RN5C | .020 | 575 | RHN79G | | | 1232 | RTN79WYP | .020 |
| | | | | 120 | N5C | | | | | | 540 | RTN79G | |
| W2-1235, W4-2460, W2-1250 | 530 | RN79G | .020 | 123 120 | RN5C N5C | .020 | 575 | RHN79G | | | 1232 540 | RTN79WYP RTN79G | .020 |
| W2-880, W2-1230 Thru Serial #5995537 | | | | 516 | D16 | .030 | | | | | 340 | KIN/9G | |
| | | | | 564 | D16J | | | | | | | |] |
| WISCONSIN-ROBIN | | | | | | | | | | | | | |
| EY18-3W, EY25W Gasoline | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| , | | | | 306 | L86C | | | | | | | | |
| EY18-3W, EY25W Kerosene | 1004 | DIOCO | | 806 | L92YC | .025 | EE1 | DUI 700 | | | | DTI 050 | |
| EY18W, EY21W, EY27W, EY44W | 1224 | RL85G | .025 | 830 306 | RL86C L86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| W1-080, W1-150, W1-230, W1-280 | | | | 327 | RL87YC | .025 | | | | | | | |
| | | | | 312 | L87YC | | | | | | | | |
| W1-145, W1-390, W1-185, W1-340 | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| WT-125V, W1-450V | 1224 | RL85G | .025 | 306 830 | L86C RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | ,025 |
| 1200, 001 4000 | 1227 | I TEOOO | .020 | 306 | L86C | .020 | 331 | TUILISO | | | | I TOUCO | ,020 |
| WITTE (See Oilwell) | | | | | 1 | | | | | | | | |
| G-260 | 1224 | RL85G | .015 | 874 | RL82C | .015 | 551 | RHL79G | | | 556 | RTL85G | .015 |
| | | | | 811 | L82C | | | | | | | | |
| WORTHINGTON | | , | | | , | | | | | | | | |
| AG, BG, BBG, EEGX | | <u></u> | | 569 | W14 | .030 | | | | | | | |
| CG, CCG, CCGX, DG, DDG | 1207 582 | RW80PP RW82P | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| DDGX Gasoline | 302 | KVVOZF | | 102 | RJ6C | .030 | | | | | | | |
| | | | | 823 | J6C | | | | | | | | J |
| DDGX Natural Gas | | | | 825 | J4C | .015 | | | | | | | |
| DHG, DRG, EEG | 1207 | RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| EHG, LFC, LCE | 582 1207 | RW82P RW80PP | .012 | 545 | W85N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| Lind, Li d, Loc | 582 | RW82P | .012 | 040 | VVOSIN | .012 | 1204 | IXIIVVOOII | 332 | INTIVOOR | 000 | INTWOON | .012 |
| LTC 18X25, & LTC 20X25 | | | | 518 | W18 | .025 | | | | | | | |
| ML Turbocharged | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| SDHG & SDHP Severe Service | 582 1207 | RW82P RW80PP | 012 | 580 | W80N | 012 | 1204 | RHW80PP | | RHW80N | 620 | RTW80N | 012 |
| SDING & SDINF Severe Service | 582 | RW82P | .012 | 553 580 | RW80N W80N | .012 | 1204 | KHWOUFF | 532 | KUMOON | 638 | KIWOUN | .012 |
| SLHC, SLHCA, SLHP | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| SUTC, SEGH, SWG | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | .012 |
| SWG, SOME, SEHG w/Clamp in plugs | 582 | RW82P | | 580 598 | W80N RS79N | .012 | | | | | | | |
| UTC | 1207 | RW80PP | .012 | 553 | RW80N | .012 | 1204 | RHW80PP | 532 | RHW80N | 638 | RTW80N | |
| | 582 | RW82P | | 580 | W80N | | | | | | | | |
| UTC Shielded | | | | | | <u> </u> | 578 | REW82P | 534 | REW80N | | | .012 |
| YAMAHA | | | | | | | | | | | | | |
| AS110 | 1224 | RL85G | .025 | 830 | RL86C | .025 | 551 | RHL79G | | | 556 | RTL85G | .025 |
| MF180, MF260, MF410 | | | | 306 | L86C RL87YC | 025 | | | | | | | |
| | | | | 327 312 | L87YC | .025 | | | | | | | |
| | | | | - 5.14 | 1 | | | | | | | | |



| MAKE STOCK PLUG STOCK PLUG STOCK PLUG STOCK PLUG STOCK PLUG | AAVE | PR | EMIUM LONG I | .IFE | | COPPER PLUS UNSHIELDED | | | PREMIUM LDED 3/4"-20 | | HIELDED 3/4"-20 | TYP | GRAL COIL E 13/16"-20 | |
|---|--------------------|----|--------------|------|-----|---------------------------|------|--------------|-------------------------|--------------|--------------------|-------|--------------------------|----|
| (anmar (12, Y18, Y24, Y33 405 RN14YC .030 (OUNG | | | | GAP | | PLUG TYPE | GAP | STOCK NO. | | STOCK NO. | | STOCK | PLUG | GA |
| YOUNG | anmar and a second | | | | | | | | | | | | 1112 | |
| | 12, Y18, Y24, Y33 | | | | 405 | RN14YC | .030 | | | | | | | l |
| A Models YOUNG SIR WIR OSS | OUNG | | | | | | | | | | | | | |
| | II Models YOUNG | | | | 518 | W18 | .025 | | | | | | | ļ |
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COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS-5/8"-24 SHIELDED



| MAKE | SHIE | LDED 5/8" | -24 | MAKE | SHIE | LDED 5/8" | -24 |
|--|------------|----------------|-------|--|------------|---------------|-------|
| YEAR AND MODEL | STOCK | PLUG | GAP | YEAR AND MODEL | STOCK | PLUG | GAP |
| BUDA (see Allis-Chalmers) | NO. | TYPE | | COOPER - BESSEMER | NO. | TYPE | |
| DODA (SEC AMIS CHAMINES) | | | | G402 REDUCING BUSHING | | | |
| | | | | GDJ, GMA, GMB, GMC | 568 | REM77N | 0.015 |
| CASE | ' | 1 | | GDT, GFB, GFE, GFK | 568 | REM77N | 0.015 |
| GASOLINE | | | | COOPER ENERGY SERVICES (see Su | perior) | | |
| 188G, 301G, 377G | 563 | XED16 | 0.025 | - | | | |
| A284, A377, 159G | 563 | XED16 | 0.025 | | | | |
| NATURAL & LP GAS | | | 0.040 | CP - CHICAGO PNEUMATIC | | | |
| 188G, 301G, 377G | 568 568 | REM77N | 0.012 | | | | |
| A284, A377, 159G | 508 | REM77N | 0.012 | 9CPG High Comperssion | 534 | REW80N | 0.012 |
| CATERPILLAR | | | | 9CPG Low Comperssion | 563 | XED16 | 0.025 |
| STARTING ENGINE FOR DIESELS | 563 | XED16 | 0.025 | DECO-GRAND | | | |
| D320, D326, D337 18mm Heads D339, D342, D343, D353 18mm Heads | 563 | XED16 | 0.025 | | | | |
| D375, D379, D397, D398 18mm Heads | 563 | XED16 | 0.025 | AU7B, DE8 | 567 | XEJ12 | 0.025 |
| , , , | 303 | ALD IO | 0.023 | DORMAN | | | |
| CLARK (see Dresser Clark) | | | | | | | |
| | | | | 12S, 12STCWG, 12STCAG, 6PG, 12PG | 568 | REM77N | 0.015 |
| CLEVELAND DIESEL | | | | 12SG | 568 | REM77N | 0.015 |
| CLEVELAND DIESEL | | | | 6PG, 12PG | 568 | REM77N | 0.015 |
| Model 358 | 578 | REW82P | 0.012 | DRESSER CLARK | | ì | |
| | 370 | INLVVOZI | 0.012 | | | DE11100D | |
| CLIMAX | | | | BA, HBA, HMA, HLA, HRA, MA | 578 | REW82P | 0.012 |
| GASOLINE CE101, CE106, CE264 Normal Service | 568 | REM77N | 0.012 | RA, TRA, TLA, TCV | 578 | REW82P | 0.012 |
| CE46, CE66, CE81, CE96 Normal Service | 550 | ED14 | 1 | SUPER & TURBOCHARGED HBAT, HLAT, HRAT, TRA, TLA | 578 | REW82P | 0.012 |
| CE46, CE66, CE81, CE96 Normal Service | 572 | XED14 | | TCVB, TCVC, TVM, VMC | 578 | REW82P | 0.012 |
| R-165 Snowplow Only Normal Service | 563 | XED16 | 1 | TLAB, TLAC, TLAD, TPV, TCVA | 578 | REW82P | 0.012 |
| V-80, V-85, V-122, V-125 8.2:1 C.R. Normal Service | 550 | ED14 | 1 | TVC, HSRA, RAS, TMB | 578 | REW82P | 0.012 |
| V-80, V-85, V-122, V-125 8.2:1 C.R. Normal Service | 572 | XED14 | 0.015 | DRESSER RAND | | | |
| V-80, V-85, V-122, V-125 9.4:1 C.R. Normal Service | 568 | REM77N | 0.012 | DRESSER RAITE | | | |
| CONTINENTAL | · | | | TCV, TCVA, TCVD, TLAD | 578 | REW82P | 0.012 |
| NATURAL & LP GAS | | | | ENTERPRISE | | | |
| C46, C66, C96, C106, C255 | 505 | ED89D | 0.025 | 7/8" - 18 HEADS | | | |
| NORMAL SERVICE | | \ \tag{2} | | GSM-36, 38 | 578 | REW82P | 0.012 |
| B405, 4124, 4140, 4162, 4163, 6226 | 563 | XED16 | 0.025 | CENTER OF HEAD | | | |
| B6244, 6245, 6277, 6371, 6405, 6427 | 563 | XED16 | 0.025 | TDSG-36-6-38 | 578 | REW82P | 0.012 |
| C46, C66 E223, F124, 135, 140, 162, 163, 186 | 563 563 | XED16 XED16 | 0.025 | FAIRBANKS MORSE | | | |
| F209, 226, 227, 244, 245 | 563 | XED16 | 0.025 | | | | |
| G134, 157, 176, H227, 243, 260 | 563 | XED16 | 0.025 | 38D8-1 SERIES | 568 | REM77N | 0.012 |
| J382 TO 403, T371 TO 247 | 563 | XED16 | 0.025 | FICHTEL-SACH (see Sachs) | | | |
| M6271, 6290, 6330, 6363, OS220 | 563 | XED16 | 0.025 | | | | |
| R6513, 6572, 6602, U6501 18mm Heads | 563 | XED16 | 0.025 | | | | |
| RS542, T6371, 6427, TC56 | 563 | XED16 | 0.025 | GENERAL MOTORS | | | |
| Y69, Y91, Y112, Y4069, 4091, 4112 | 563 | XED16 | 0.025 | | | | |
| Z105 TO 120, ZA120 | 563 | XED16 | 0.025 | 16-358HN, 16-358-X | 578 | REW82P | 0.012 |
| COOPER - BESSEMER | · | | | HALL SCOTT | | | |
| | | | | GASOLINE | | | |
| ENG, GNG | 568 | REM77N | 0.015 | 1091-OS Intake | 563 | XED16 | 0.025 |
| GAW, GMR, GMV, JS | 578 | REW82P | 0.012 | 136, 180, 190, 504 Exhaust | 550 | ED14 | 0.025 |
| GS | 563 | XED16 | 0.025 | | 572 | XED14 | 0.025 |
| 5/8" REACH | 570 | DEMOSE | 0.010 | 200-0, 201-0, 400-0 Regular | 550 | ED14 | 0.025 |
| GMW, GMX, V-250, V-275, W330 | 578 | REW82P | 1 | 200-0, 201-0, 400-0 Regular | 572 | XED14 | 0.025 |
| GMWC, GMWA | 578 | REW82P | | 400-0, 470, 480, 6156 Exhaust 400-0, 470, 480, 6156 Exhaust | 550 572 | ED14 XED14 | 0.025 |
| GMXE, GMWA, GMXH, W330 Z330 | 578 578 | REW82P | | 440, 2269-0, 1091-OS Ehaust | 550 | ED14 | 0.025 |
| 2000 | 0/0 | NEWOZP | 0.012 | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 1 330 | 6014 | 0.023 |



COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS-5/8"-24 SHIELDED

| MAKE | | LDED 5/8" | | MAKE | | LDED 5/8" | |
|--|--------------|--------------|-------|---|--------------|----------------|-------|
| YEAR AND MODEL | STOCK NO. | PLUG TYPE | GAP | YEAR AND MODEL | STOCK NO. | PLUG TYPE | GAP |
| HALL SCOTT | | | | MINNEAPOLIS - MOLINE | | | |
| 440, 2269-0, 1091-OS Ehaust | 572 | XED14 | 0.025 | | | | |
| 6156-B1, 6182-B1 Intake | 572 | XED14 | 0.025 | | 563 | XED16 | 0.025 |
| 6156-B1, 6182-B1 Intake | 550 | ED14 | 0.025 | | 550 | ED14 | 0.025 |
| 779-GHI | 563 | XED16 | 0.025 | | 572 | XED14 | 0.025 |
| F3, G1, G2, 6182 Exhaust | 550 | ED14 | 0.025 | | 550 | ED14 | 0.025 |
| F3, G1, G2, 6182 Exhaust | 572 | XED14 | 0.025 | l | 572 | XED14 | 0.025 |
| G1, G2, FE, 1091G1 Exhaust | 550 | ED14 | 0.025 | 0 | 572 | XED14 | 0.025 |
| G1, G2, FE, 1091G1 Exhaust | 572 | XED14 | 0.025 | ALL ABOVE MODELS W/18mm HEADS Low | 550 | ED14 | 0.025 |
| NATURAL & LP GAS | 550 | ED14 | 0.025 | Composion | 000 | LDIT | 0.020 |
| 400-0, 470, 480, 855, 935 Intake 400-0, 470, 480, 855, 935 Intake | 572 | XED14 | 0.025 | LIDEOA CA LIDAGE CA Lavi Camananaian | 550 | ED14 | 0.025 |
| | 312 | ALD 14 | 0.023 | HD504-6A, HD425-6A Low Comperssion | 572 | XED14 | 0.025 |
| HERCULES | | | | HD504A-6A, 605A-6A, 605B-6A Low Comperssion | 550 | ED14 | 0.025 |
| 4004 00 F had | 550 | ED44 | 0.005 | HD504A-6A, 605A-6A, 605B-6A Low Comperssion | 572 | XED14 | 0.025 |
| 1091-OS Exhaust | 550 | ED14 | 0.025 | HD605-6A, 800-6A Low Comperssion | 572 | XED14 | 0.025 |
| 1091-OS Exhaust | 572 | XED14 | 0.025 | HD605-6A, 800-6A Low Comperssion | 550 | ED14 | 0.025 |
| 1091-OS Intake | 563 | XED16 | 0.025 | HD800-6A, HD800A-6A, 1210-12A Low Comperssion | 550 | ED14 | 0.025 |
| HXE, HXLEF | 563 | XED16 | 0.025 | HD800-6A, HD800A-6A, 1210-12A Low Comperssion | 572 | XED14 | 0.025 |
| NATURAL & LP GAS 6156, 6182 Gas Intake | 550 | ED14 | 0.025 | NATURAL & LP GAS | | | |
| 6156, 6182 Gas Intake | 572 | XED14 | 0.025 | 206-4A, 220-4, HD220-4A, M220-A4A | 568 | REM77N | 0.025 |
| | 312 | ALD 14 | 0.023 | 283-4A, HD504-6A | 568 | REM77N | 0.025 |
| HOPE (see Cooper-Bessemer) | | | | 336A-4A, HD425-6A, HD504A-6A | 568 | REM77N | 0.025 |
| | | | | 605A-6A, 605B-6A, HD605-6A | 568 | REM77N | 0.025 |
| | | | | HD800-6A, HD800A-6A, 1210-12A | 568 | REM77N | 0.025 |
| INGERSOLL-RAND | | ı | | NORDBERG (Hatch & Kirk) | | | |
| NATURALLY ASPIRATED | 578 | REW82P | 0.012 | | _ | | |
| PKVG, KVGR, PKVGR | 578 | REW82P | 0.012 | I OWGI OIIIGI 41 G | 572 | XED14 | 0.025 |
| Turbicharged Models XVG, PVG, JVG, SVG, KVG, PJVG, PSVG | 578 | REW82P | 0.012 | 1 ower official of | 550 | ED14 | 0.025 |
| INTERNATIONAL | 370 | KLW02F | 0.012 | RATHBUN JONES | | | |
| GASOLINE | | | | M | 500 | DEMITT | 0.045 |
| U164, U169, U175 NORMAL SERVICE | 563 | XED16 | 0.025 | Models w/G402 Reducing Bushing | 568 | REM77N | 0.015 |
| U2, U2A, UC60, UC135 NORMAL SERVICE | 563 | XED16 | 0.025 | ROBIN (see Fuji-Robin) | | | |
| UC135B, UC153 NORMAL SERVICE | 563 | XED16 | 0.025 | | | | |
| UC175, UC200, UC301 NORMAL SERVICE | 563 | XED16 | 0.025 | | | | |
| UC221, UC263 Shielded NORMAL SERVICE | 563 | XED16 | 0.025 | ROILINE | | | |
| JOHN DEERE | | | | | | | |
| JOHN DELKE | | | | F1500, H2000, H2470 (Light Load) | 568 | REM77N | 0.012 |
| 341, 400, 500 Series | 550 | ED14 | 0.025 | H540, H844, H570, H884 | 568 | REM77N | 0.012 |
| 341, 400, 500 Series | 572 | XED14 | 0.025 | L3230, L3460, L4000 (Light Load) | 568 | REM77N | 0.012 |
| NATURAL & LP GAS | | | | GASOLINE | 500 | DEMZZY | 0.040 |
| 400, 500 Series | 568 | REM77N | 0.012 | F1500, F1850, H2000, H2150, H2470 High Compension | 568 | REM77N | 0.012 |
| LORAIN | | | | F1500, F1850, H2000, H2150, H2470 Low Compension | 550 | ED14 | 0.025 |
| | | | | F1500, F1850, H2000, H2150, H2470 Low Compension | 572 550 | XED14 | 0.025 |
| 30, 37, 40, 50 | 563 | XED16 | 0.025 | L3000, L3230, L3460, L4000 Low Compension | 550 | ED14 REM77N | 0.025 |
| A, L, O, R 7/8"-18 HEADS | 578 | REW82P | 0.012 | L3000, L3230, L3400, L4000 Flight Compensation | 568 572 | XED14 | 0.012 |
| LUFKIN | | | 1.0.2 | Shielded Plug Low Comperssion | 550 | ED14 | 0.025 |
| | | | | Shielded Plug High Compension | 550 | ED14 | 0.025 |
| NORMAL SERVICE H795 | 578 | REW82P | 0.012 | | 572 | XED14 | 0.025 |
| SEVERE SERVICE | 310 | INLVVOZP | 0.012 | Shielded Plug Low Comperssion | 572 | XED14 XED14 | 0.025 |
| H1770, H2165 | 578 | REW82P | 0.012 | | J12 | / ALD 14 | U.UZÜ |
| H1770, H2165 | 578 | REW82P | 0.012 | RUSION | | | |
| M.E.P. INDUSTRIES | | | 1 | | E70 | DEMOOD | 0.040 |
| M.E.I. INDUSTRIES | | | | RK270GS Series | 578 | REW82P | 0.012 |
| M.E.P6, -8, 10, -12 Unshielded | 568 | REM77N | 0.015 | SOLAR TURBINE | | | |
| | ı | | 1 | Mars, Centaur | 572 | XED14 | 0.025 |
| | | | | I Wais, Odillaui | 1 3/2 | ∧⊑U14 | 0.025 |

COMMERCIAL, STATIONARY AND GAS ENGINE APPLICATIONS-5/8"-24 SHIELDED



| MAKE | | LDED 5/8"- | | MAKE | | LDED 5/8" | |
|---|--------------|------------------|-------|---|--------------|------------------|-------|
| YEAR AND MODEL | STOCK NO. | PLUG TYPE | GAP | YEAR AND MODEL | STOCK NO. | PLUG TYPE | GAP |
| SOLAR TURBINE | | | | WAUKESHA | | | |
| Mars, Centaur | 550 | ED14 | 1 | Shielded type for D16 14mm Heads | 563 | XED16 | 0.025 |
| Type H, Tauros | 550 | ED14 | 1 | Shielded type for J8C 14mm Heads | 557 | XEJ8 | 0.025 |
| Type H, Tauros | 572 | XED14 | 0.025 | INLINE 8 | | | |
| STOVER | | | | 8L-AT25GL/AT27GL (1/2' reach heads) | 568 | REM77N | 0.012 |
| | | | | INTERMEDIATE SERIES F1197G Inline 6 | 572 | XED14 | 0.025 |
| DVA, DVA1 | 550 | ED14 | 0.025 | F1197G Inline 6 | 550 | ED14 | 0.025 |
| DVA, DVA1 | 572 | XED14 | 0.025 | F1905GR Inline 6 | 568 | REM77N | 0.015 |
| SUPERIOR | | | | VGF SERIES | | | 0.0.0 |
| | | | | 140GK, 145GK, FC 18mm Heads | 568 | REM77N | 0.015 |
| 1965-58 GX825 Series | 568 | REM77N | 0.015 | TOOO, TOOOD, TOOORD, TOOODD TOTTITITIONS | 568 | REM77N | 0.015 |
| 1970-63 VG825 Series86 | 578 | REW82P | 0.012 | 10000, TIZ 1700, EUT TTO Hattack Cab Tollini Floado | 550 | ED14 | 0.025 |
| 1970-63 VGT825 Series86 | 578 | REW82P | 0.012 | 10000, 1124700, E07110 Haladi Odo Tollilli Hoddo | 572 | XED14 | 0.025 |
| 1973-39 80G Series | 550 | ED14 | 0.025 | 1000, 1000EB, 1000, 1000K Tollilli Tioddo | 568 | REM77N | 0.015 |
| 1973-39 80G Series | 572 | XED14 | 0.025 | ODZ, OLIVZ, OLIVZD, OWIZIN, ION TOMINITIONS | 568 | REM77N | 0.015 |
| 1973-39 80GX Series | 572 | XED14 | 0.025 | 6NK, 6WAK, 6WAKB, NKRB, WAKR, LRORB 18mm | 568 | REM77N | 0.015 |
| 1973-39 80GX Series | 550 | ED14 | 1 | Heads | 500 | DEMZZNI | 0.045 |
| 1979-65 GT825 Series 1980-46 G510 Series | 568 568 | REM77N REM77N | 1 | F1197GRSI, F1905GRSI Generator Set 18mm Heads | 568 | REM77N | 0.015 |
| 1980-46 G510 Series | 568 | REM77N | 1 | F2894G, F2894GRSI, F3520G, L5100GR 18mm Heads | 568 | REM77N | 0.015 |
| 1980-61 GT510 Series | 568 | REM77N | 1 | L5100GRSI, L5788GR 18mm Heads L5788GRSI, L7040G 18mm Heads | 568 | REM77N REM77N | 0.015 |
| 1980-76 SGT Series | 568 | REM77N | 1 | L7042GSIE, F3521GSIE 18mm Heads | 568 568 | REM77N | 0.015 |
| 1980-79 GTL Series | 568 | REM77N | 1 | VRN232, VRN155 18mm Heads | 550 | ED14 | 0.015 |
| 2400 G Series | 572 | XED14 | 0.015 | 1 | 572 | XED14 | 0.025 |
| 2400 G Series | 550 | ED14 | 0.025 | | 312 | ALD 14 | 0.023 |
| | 330 | LDIT | 0.020 | 2895GL (1/2' reach heads) Inline 6 | 568 | REM77N | 0.012 |
| TELEDYNE (see Continental) | I | | | 3521GL (1/2' reach heads) Inline 6 | 568 | REM77N | 0.012 |
| | | | | 5108GL (1/2" reach heads) V12 Series | 568 | REM77N | 0.012 |
| HAHVERS AT | | | | 5790GL (1/2' reach heads) V12 Series | 568 | REM77N | 0.012 |
| UNIVERSAL | | | | 7042GL (1/2' reach heads) V12 Series | 568 | REM77N | 0.012 |
| 18mm Heads | 550 | ED14 | 0.025 | 9390G, P9390GSI V16 Series | 568 | REM77N | 0.012 |
| 18mm Heads | 572 | XED14 | 0.025 | 9390GL (1/2" reach heads) V16 Series | 568 | REM77N | 0.012 |
| | 312 | ALD 14 | 0.023 | F2895G, F2895GSI Inline 6 | 568 | REM77N | 0.012 |
| WAUKESHA | | | | F3251G, F3521GSI Inline 6 | 568 | REM77N | 0.012 |
| AT Series 12V-AT25GL/AT27GL (1/2' reach heads) | 568 | REM77N | 0.012 | L5108G, L5108GSI, L5790G V12 Series | 568 | REM77N | 0.012 |
| GASOLINE | 300 | KEWITTIN | | L5790GSI, L7042G, L7042GSI V12 Series | 568 | REM77N | 0.012 |
| 140GK, 140GS, 145GK, 145GS 14mm Heads | 563 | XED16 | 0.025 | WHITE ENGINE, INC. (see Hercules) | | | |
| 180G, 180GB, 180GL 14mm Heads | 572 | XED14 | 0.025 | | | | |
| 180G, 180GB, 180GL 14mm Heads | 550 | ED14 | 0.025 | | | | |
| 180GS, 185GS, 190GS, FC 14mm Heads | 563 | XED16 | 0.025 | WHITE-SUPERIOR (see Superior) | | | |
| 185GL, 185GLB, 190G, 190GL, 190GLB 14mm Heads | 550 | ED14 | 0.025 | | | | |
| 185GL, 185GLB, 190G, 190GL, 190GLB 14mm Heads | 572 | XED14 | 0.025 | | | | |
| 195G, 195GK, 195GKA, 195GL 14mm Heads | 550 | ED14 | 0.025 | WORTHINGTON | | | |
| 195G, 195GK, 195GKA, 195GL 14mm Heads | 572 | XED14 | 0.025 | | | | |
| 6BZ, LRORB, VLRORB, ICK 14mm Heads | 550 | ED14 | 0.025 | CG, CCG, CCGX, DG, DDG | 578 | REW82P | 0.012 |
| 6BZ, LRORB, VLRORB, ICK 14mm Heads | 572 | XED14 | 0.025 | DHG, DRG, EEG | 578 | REW82P | 0.012 |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK 14mm Heads | 550 | ED14 | 0.025 | EHG, LFC, LCE | 578 | REW82P | 0.012 |
| 6LRZ, 6LRZB, 6MZA, 6MZR, 6NK 14mm Heads | 572 | XED14 | 0.025 | ML Turbocharged | 578 | REW82P | 0.012 |
| 6NKR, 6NKRB, 6SRKR, 6WAK, 6WAKB 14mm Heads | 550 | ED14 | 0.025 | SDHG & SDHP Severe Service | 578 | REW82P | 0.012 |
| 6NKR, 6NKRB, 6SRKR, 6WAK, 6WAKB 14mm Heads | 572 | XED14 | 0.025 | SLHC, SLHCA, SLHP | 578 | REW82P | 0.012 |
| CFR 14mm Heads | 563 | XED16 | 1 | SUTC, SEGH, SWG | 578 | REW82P | 0.012 |
| D155G, D176G, VRG232 14mm Heads | 563 | XED16 | 0.025 | UTC | 578 | REW82P | 0.012 |
| F1197GR, VRG155 14mm Heads | 550 | ED14 | 0.025 | | | | |
| F1197GR, VRG155 14mm Heads | 572 | XED14 | 0.025 | | | | |
| Shielded type for D14 14mm Heads | 550 | ED14 | 0.025 | | | | |
| Shielded type for D14 14mm Heads | 572 | XED14 | 0.025 | | | | |



| STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | | TERMINAL THREAD NUT | REPL. GASKET | STK. NO. | PLUG TYPE | AVAIL. GAP | PACK QTY. | REACH INCHES | | TERMINAL THREAD NUT | REPL. GASKET |
|-------------|-------------------|---------------|--------------|-----------------|--------------|---------------------------|-----------------|--------------|--------------------|---------------|--------------|-----------------|--------------|---------------------------|-----------------|
| 10mi | m THREAD | DIAM | ETER | | | | | 14mr | n THREAD | DIAM | ETER | | | | |
| 877 | Y82 | .020 | 8 | .312 | 14mm | NONE | NONE | 644 | RJ88P | .015 | 8 | .375 | 13/16 | BN-9A | N-678 |
| 1-1 / | 8" - 12 TH | READ | DIA۸ | NETER | | | | 18mr | n THREAD | DIAM | ETER | | | | |
| 598 | RS79N | .012 | 8 | .625 | 1 | BN-9A | FGS-8A | 1201 | RTM78N | .012 | 4 | .531 | 7/8 | NONE | A-678 |
| 12.7r | nm THREA | D DIA | METE | R | | | | 1202 1203 | RTM78N RTB78N | .019 | 4 | .531 .531 | 7/8 7/8 | NONE NONE | A-678 A-678 |
| 525 | 25 | .030 | 8 | 1.00 | .938 | NONE | NONE | 1203 | RB77WPCC | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| | 1 | l | ļ | 1.00 | .000 | HOHE | HONE | 1219 | KB75N | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 14mi | m THREAD | DIAM | EIEK | | | | | 1225 | RTM82WPCC | .012 | 4 | .500 | 7/8 | NONE | NONE |
| 1206 | RC78WP | .012 | 6 | .750 | 5/8 | NONE | N-678 | 1230 | FB77WPCC | .012 | 4 | .813 | 7/8 | None | A-678 |
| 1208 | RC78PYP | .017 | 6 | .750 | 5/8 | NONE | N-678 | 204 | D14N | .025 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 1209 | RC78YCC15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 213 | RHM77N | .020 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 1213 | RC78PYP | .012 | 4 | .750 | 5/8 | NONE | N-678 | 214 | RTM77N | .012 | 8 | .531 | 1 | BN-9A | A-678 |
| 1218 | RC78WYP11 | .011 | 6 | .750 | 5/8 | NONE | N-678 | 217 | RM77PP | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 1220 | RTV85G | .025 | 4 | .460 Taper | 5/8 | BN-9A | N-678 | 222 223 | RHM78PP RTM77PP | .012 | 4 | .531 .531 | 7/8 7/8 | SHIELDED BN-9A | A-678 A-678 |
| | | | | Seat | | | | 225 | RB75PP | .012 | 4 | .813 | 7/8 | BN-9A | A-678 |
| 1221 | RC78WYP15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 226 | RB76PP | .012 | 4 | .813 | 7/8 | BN-9A | A-678 |
| 1224 | RL85G | .015 | 4 | .500 | 13/16 | BN-9A | N-678 | 229 | KB77WPCC | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 1232 | RTN79WYP | .015 | 4 | .750 | 15/16 | NONE | N-678 | 233 | RM82WPCC | .012 | 4 | .531 | 7/8 | BN-9A | A-678 |
| 218 | RC78PYP | .015 | 6 | .750 | 5/8 | NONE | N-678 | 234 | RHM78N | .015 | 4 | .531 | 7/8 | SHIELDED | A-678 |
| 219 | RC78PYP | .021 | 6 | .750 | 5/8 | NONE | N-678 | 235 | RTB77WPCC | .012 | 4 | .813 | 1 | BN-9A | A-678 |
| 224 230 | RN79G1 RX85PYP | .010 | 8 | .750 .500 | 13/16 5/8 | NONE NONE | N-678 N-678 | 236 | RHM78WPCC | .012 | 4 | .531 | 7/8 | SHIELDED | A-678 |
| 232 | RC78PYP17 | .012 | 6 | .750 | 5/8 | NONE | N-678 | 237 | RB77CC | .012 | 4 | .813 | 7/8 | NONE | A-678 |
| 241 | RC78PYP25 | .025 | 6 | .750 | 5/8 | NONE | N-678 | 242 | RB75WPCC | .012 | 4 | .813 | 13/16 | NONE | A-678 |
| 243 | RC78PYP15 | .015 | 6 | .750 | 5/8 | NONE | N-678 | 245 | RB77WPCC | .007 | 4 | .813 | 7/8 | NONE | A-678 |
| 244 | RC78PYP21 | .021 | 6 | .750 | 5/8 | NONE | N-678 | 249 | RB77WPCC | .007 | 4 | .813 | 7/8 | NONE | A-678 |
| 247 | RN79PYP17 | .017 | 4 | .750 | 13/16 | NONE | N-678 | 503 | REM84P | .015 | 8 | .500 | 7/8 | SHIELDED | A-678 |
| 248 | RN79PYP25 | .025 | 4 | .750 | 13/16 | NONE | N-678 | 504 | N21 | .025 | 4 | .750 | 13/16 | NONE | A-678 |
| 502 | D21 | .027 | 6 | .500 | 7/8 | NONE | N-678 | 505 | ED89D | .025 | 8 | .500 | 7/8 | SHIELDED | A-678 |
| 517 | XMJ17 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 506 509 | D6 D9 | .027 | 6 | .500 .500 | 7/8 7 / 8 | NONE BN-9A | A-678 N-678 |
| 522 | REL89G | .015 | 1 | .500 | 13/16 | SHIELDED | N-678 | 514 | D14 | .025 | 6 | .500 | 7/8 | BN-9A | N-678 |
| 530 | RN79G | .015 | 8 | .750 | 13/16 | NONE | N-678 | 515 | D15Y | .023 | 6 | .500 | 7/8 | NONE | A-678 |
| 535 | RL15B | .015 | 8 | .500 | 13/16 | BN-9A | N-678 | 516 | D16 | .025 | 6 | .500 | 7/8 | ZN-9A | A-678 |
| 540 | RTN79G | .015 | 8 | .750 | 15/16 | BN-9A | N-678 | 519 | RM77N | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 551 | RHL79G | .015 | 1 | .500 | 7/8 | SHIELDED | N-678 | 521 | XMD21 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 556 | RTL85G | .015 | 8 | .500 | 13/16 | BN-9A | N-678 | 523 | D23 | .030 | 8 | .500 | 7/8 | NONE | A-678 |
| 557 | XEJ8 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 526 | RD15Y | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 567 | XEJ12 | .025 | 8 | .375 | 13/16 | SHIELDED | N-678 | 529 | D14N | .015 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 573 575 | XMJ20 RHN79G | .025 .015 | 8 | .375 .750 | 13/16 7/8 | SHIELDED SHIELDED | N-678 N-678 | 541 | RD16 | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 575 588 | XMJ14 | .015 | 8 | .750 | 7/8 13/16 | SHIELDED | N-678 | 542 | B86N | .012 | 8 | .813 | 7/8 | BN-9A | A-678 |
| 594 | TJ83 | .025 | 8 | .375 | 13/16 | BN-9A | N-678 | 543 | D89D | .025 | 8 | .500 | 7/8 | NA-9E | A-678 |
| 599 | J99 | NA | 8 | .375 | 13/16 | NONE | N-678 | 547 | RTM77N | .019 | 8 | .531 | 1 | BN-9A | A-678 |
| 603 | XML12 | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 548 | RTM79 | .025 | 8 | .531 | 7/8 | BN-9A | A-678 |
| 610 | REL88B | .020 | 8 | .500 | 13/16 | SHIELDED | N-678 | 549 | D18Y | .027 | 6 | .500 | 7/8 | NONE | A-678 |
| 612 | RML12 | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 550 | ED14 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 614 | XEN14 | .025 | 8 | .750 | 7/8 | SHIELDED | N-678 | 555 | UD16 | .025 | 6 | .500 | 7/8 | ZN-9A | A-678 |
| 616 | XMN12 | .025 | 8 | .750 | 7/8 | SHIELDED | N-678 | 563 | XED16 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 |
| 633 | XML15Y | .025 | 8 | .500 | 13/16 | SHIELDED | N-678 | 564 566 | D16J | .030 | 6 g | .500 | 7/8 | NONE | A-678 |
| 642 | RN79G | .025 | 8 | .750 | 13/16 | NONE | N-678 | 566 568 | M82N REM77N | .015 | 8 | .531 .531 | 7/8 7/8 | BN-9A SHIELDED | A-678 A-678 |
| | | • | • | | • | • | • | 500 | DEWL IN | .015 | 0 | .551 | 110 | אחובנטבט | A-0/8 |



| STK. NO. | PLUG TYPE | AVAIL. GAP | | REACH INCHES | HEX INCHES | | REPL. GASKET | STK. NO. | PLUG TYPE | AVAIL. GAP | | REACH INCHES | | | REPL. GASKET |
|-------------|------------------|---------------|------------------|-----------------|---------------|------------------|-----------------|-------------|-----------------|---------------|-----|-----------------|---------------|---------------|-----------------|
| 18mr | n THREAD | DIAM | FTER | | | NUT | | 7 / 8' | ' - 18 THRI | FAD DI | ΔMF | TER | | NUT | |
| | 1 | I | ı | | = 10 | DAL OA | | | ı | 1 | ı | | 45440 | | 4.470 |
| 571 | RM79F | .015 | 8 | .500 | 7/8 | BN-9A | A-678 | 580 | W80N | .013 | 8 | .600 | 15/16 | BN-9A | A-478 |
| 572 | XED14 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | 582 | RW82P | .012 | 8 | .625 | 15/16 | BN-9A | A-478 |
| 576 | RB76N | .012 | 8 | .802 | 7/8 | BN-9A | A-678 | 589 | W89D | .025 | 8 | .625 | 15/16 | NA-9E | A-478 |
| 583 | RHM83N | .015 | 8 | .531 | 7/8 7/8 | SHIELDED | A-678 | 595 | C95F | .020 | 8 | .625 | 11/8 | NA-9E | A-478 |
| 585 586 | RHM85G RGM86N | .015 | 1 | .500 .500 | 7/8 | SHIELDED NONE | A-678 A-678 | 623 631 | RGC80F RW78N | .013 | 1 4 | .625 .860 | 11/8 15/16 | NONE BN-9A | A-478 A-478 |
| 591 | RM85G | .013 | 8 | .500 | 7/8 | BN-9A | A-678 | 635 | RHW78N | .012 | 4 | .860 | 15/16 | SHIELDED | A-476 A-478 |
| 593 | RD18Y | .015 | 6 | .500 | 7/8 | NONE | A-678 | 638 | RTW80N | .012 | 1 | .625 | 1 | BN-9A | A-478 |
| 596 | RHM77N | .033 | 8 | .531 | 7/8 | SHIELDED | A-678 | 645 | RTW83F | .012 | 1 | .625 | 1 | BN-9A | A-478 |
| 597 | K97F | .020 | 8 | .688 | 1 | ZN-9A | A-678 | 040 | IXIVVOOI | .012 | ' | .020 | ' | DIN-3A | A-410 |
| 624 | RHB81N | .012 | 8 | .813 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 625 | D78Y | .015 | 8 | .500 | 7/8 | ZN-9A | A-678 | | | | | | | | |
| 630 | M82N | .012 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 634 | RB77WPCC | .012 | 4 | .813 | 7/8 | NONE | A-678 | | | | | | | | |
| 636 | RB77WPC | .012 | 4 | .813 | 7/8 | NONE | A-678 | | | | | | | | |
| 639 | RHM83N | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 640 | RM77N | .012 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 641 | RM77N | .020 | 8 | .531 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 643 | RB75N | .012 | 4 | .802 | 7/8 | NONE | A-678 | | | | | | | | |
| 646 | RTB80N | .012 | 8 | .813 | 7/8 | BN-9A | A-678 | | | | | | | | |
| 647 | M76R | .016 | 8 | .500 | 7/8 | ZN-9A | M-674 | | | | | | | | |
| 649 | XMD15 | .025 | 8 | .531 | 7/8 | SHIELDED | A-678 | | | | | | | | |
| 91 | H14Y | .035 | 4 | .438 | 13/16 | NONE | A-678 | | | | | | | | |
| 7 / 8' | ' - 18 THRE | AD DI | AME [*] | TER | | | ı | | | | | | | | |
| 1204 | RHW80PP | .012 | 8 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 1207 | RW80PP | .012 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 200 | RW80N | .015 | 4 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 201 | W77N | .012 | 8 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 202 | W80N | .020 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 203 | W85N | .020 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 206 | RW77N | .015 | 4 | 1.000 | 1 | BN-9A | A-478 | | | | | | | | |
| 228 | RW77PP | .012 | 4 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 510 | W10 | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 513 | C97B | .025 | 8 | 1.250 | 11/8 | A-146 | A-478 | | | | | | | | |
| 518 | W18 | .025 | 8 | .750 | 15/16 | NA-9E | A-478 | | | | | | | | |
| 520 | W20 | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 532 | RHW80N | .013 | 4 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 534 | REW80N | .012 | 8 | .600 | 15/16 | SHIELDED | A-478 | | | | | | | | |
| 539 | W77N | .015 | 8 | 1.000 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 544 | HW83F | .012 | 1 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 545 | W85N | .013 | 8 | .600 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 552 | RGC77N | .012 | 1 | 1.000 | 1 | NONE | A-478 | | | | | | | | |
| 553 | RW80N | .012 | 4 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 559 | RW83F | .012 | 8 | .625 | 1 | BN-9A | A-478 | | | | | | | | |
| 561 | W16Y | .025 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 562 | W95D | .040 | 8 | .625 | 15/16 | A-146 | A-478 | | | | | | | | |
| 565 | RW77N | .012 | 4 | 1.000 | 1 | BN-9A | A-478 | | | | | | | | |
| 569 | W14 | .030 | 8 | .625 | 15/16 | BN-9A | A-478 | | | | | | | | |
| 577 | RHW77N | .015 | 4 | 1.000 | 1 | SHIELDED | A-478 | | | | | | | | |
| 578 | REW82P | .012 | 8 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |
| 579 | RHW79N | .012 | 4 | .625 | 1 | SHIELDED | A-478 | | | | | | | | |



| | | | | STANDARD | | IN. | ITERGRAL CO | IL | | SHIELD | ED |
|----------------------|----------------|-------------------|-----------------------------------|--|---|--------------------|--------------------------|---------------------|-----------|--------------------|----------------------------|
| | Thread | | | | | 13/16" | 13/16" External | 1" | | | |
| Heat Range | Reach (inches) | Hex Size (inches) | Copper Plus | Precious Metal | Precious Metal Long Life | External Thread | Thread Precious Metal | Internal Threads | 5/8" - 24 | 3/4" - 20 | 3/4"- 20 Precious Metal |
| 14mm | | | AMETER | i recious metai | Long Life | Tilleda | Metai | Tilleads | 0/0 - 24 | 3/4 - 20 | i recious metal |
| | | | AMETER | | | T 100 | | | | | |
| 3 | 3/8" | 13/16" 5/8" | | RX85PYP | | TJ83 | | | | | |
| 6 | 1/2" | 13/16" | | RX85PTP | | | | | REL89G* | | |
| 4 | 1/2" | 13/16" | RL15B | RL85G | | | | | REL88B* | | |
| 4 | 1/2" | 13/16" | KEIOD | REGGG | | | RTL85G | | KLLOOD | | |
| 3 | 1/2" | 7/8" | | | | | | | | RHL79G* | |
| 3 | 3/4" | 5/8" | | RC78PYP | | | | | | | |
| 2 | 3/4" | 5/8" | RC78YCC15 | RC78PYP15 RC78PYP17 RC78PYP21 RC78PYP25 | RC78WP RC78WYP11 RC78WYP15 | | | | | | |
| 2 | 3/4" | 13/16" | | RN79G RN79G1 | RN79PYP17 RN79PYP25 | | | | | RHN79G* | |
| 0 | 0/4" | 45/40" | | | | | RTN79G | | | | |
| 2 4 0 mare | 3/4" | 15/16" | AMETED | | | | RTN79WYP15 | | | | |
| | | | AMETER | | | | | | | | |
| 7 | 1/2" | 7/8" | D89D | | | | | | ED89D* | | |
| 6 | 1/2" | 7/8" | D14N | D11050 | | | | | | | D. II. 40.5.0+ |
| 5 5 | 1/2" | 7/8" 7/8" | D78Y | RM85G | | | | | | | RHM85G* |
| 4 | 1/2" | 7/8" | M82N | | RM82WPCC | | RTM82WPCC | | REM84P* | RHM83N* | |
| 3 | 1/2" | 7/8" | RM79F | | TRIVIOZVVI CC | RTM79 | KTWOZWFCC | | TKLIVIO4I | KI IIVIOSIN | |
| J | 172 | 770 | T CONTROL | | | RTM77N | | | | RHM77N* | RHM78WPCC• |
| 3 | 1/2" | 7/8" | RM77N | RM77PP | | RTM78N | RTM77PP | RGM86N | REM77N* | RHM78N• | RHM78PP• |
| 7 | 0.691" | 1" | K97F | | | | | | | | |
| 1 | 13/16" | 13/16" | | | RB75WPCC | | | | | | |
| 5 | 13/16" | 7/8" | B86N | | | | | | | | |
| 1 | 13/16" | 7/8" | | | | RTB78N RTB80N | | | | RHB81N* | |
| 1 | 13/16" | 7/8" | RB77CC RB77N KB75N RB75N | RB75PP | FB77WPCC KB77WPCC RB77WPCC RB77WPC | | RTB77WPCC | | | | |
| 1 | 13/16" | 7/8" | RB76N | RB76PP | | | | | | | |
| 7/8" - | 18mm | IHRE | AD DIAM | EIER | | | | | | | |
| 7 | 5/8" | 15/16" | W95D W89D | | | | | | | | |
| 7 | 5/8" | 15/16" | W20 | | | | | | | | |
| | | | W16Y W14 | | | | | | | | |
| 6 | 5/8" | 15/16" | W10 | | | | | | | | |
| 5 | 5/8" | 15/16" | W85N | RW82P | | | | | | | |
| | | 4=/: | W80N | D)4/5 | | | | | | | |
| 3 | 5/8" | 15/16" | RW80N | RW80PP | | | | | DEMAGES | | |
| 4 | 5/8" | 1" | | 1 | | | | | REW82P* | | |
| | | | | | | RTW83F | | | | RHW80N• RHW79N* | |
| 3 | 5/8" | 1" | RW83F | | | RTW80N | | | REW80N* | HW83F• | RHW80PP• |
| 7 | 5/8" | 1 1/8" | C95F | | | | | | | | |
| 3 | 5/8" | 1 1/8" | | | | | | | | | |
| 3 | 5/8" | 1 1/8" | | 1 | | 1 | | RGC80F | | | |
| 7 | 3/4" | 15/16" | W18 | | | | | | | | |
| 3 | .860" | 1" | RW78N | | | | | | | RHW78N• | |
| • | 4" | 4" | W77N | | D/4/2200 | | | | | DUMZZŁ | |
| 3 | 1" | 1" 1 1/8" | RW77N | | RW77PP | | | DCC77N1 | | RHW77N• | |
| 7 | 1 1/4" | 1 1/8" 1 1/8" | C97B | | | | | RGC77N | | | |
| | | | READ DIA | METER_ | | | | | | | |
| | | | | | | | | | | | |
| 3 | 0.595 | 1 | RS79N | 1 | | <u> </u> | | | <u> </u> | | |

| HEAT R | ANGE (II | MEP) | IMEP es | tablished | d per SA | E J549 | | |
|--------|----------|---------|---------|-----------|----------|---------|---------|-----|
| COLD | 1 | 2 | 3 | 4 | 5 | 6 | 7 | НОТ |
| COLD | 400+ | 350-400 | 300-350 | 250-300 | 200-250 | 150-200 | 100-150 | ПОТ |

^{* 1&}quot; shielded spark plug depth.• 2" shielded spark plug depth

REPLACEMENTS FOR DISCONTINUED SPARK PLUGS



This list contains industrial spark plugs that have been discontinued. See the Champion Master Application Catalog. Refer to the Champion policy on Unsalable Product or consult your supplier or Champion Representative on the handling of these plug types.

| Discont'd | Replaced | Discont'd | Replaced | Discont'd | Replaced | Discont'd | Replaced | Discont'd | Replaced |
|-----------|---------------------|-----------|---------------------|-----------|---------------------|-----------|----------------------|-----------|---------------------|
| Plug | By Plug | Plug | Replaced By Plug | Plug | By Plug | Plug | Replaced By Plug | Plug | Replaced By Plug |
| 0-COM | 510 / W10 | J13-0 | 525 / 25 | RJ18Y | 58 / RJ18YC | JAS43 | 561 / W16Y | E7 | 563 / XED16 |
| CO | 569 / W14 | J13Y | 63 / RJ14YC | 2 | 518 / W18 | JB43 | 518 / W18 | J7 | 871 / RJ8C |
| 1 | 569 / W14 | K13 | 514 / D14 | 2-COM | 518 / W18 | JC43 | 561 / W16Y | J7J | 871 / RJ8C |
| 1-COM | 569 / W14 | N13L | 101 / RN13LYC | 2-COM-L | 518 / W18 | G44 | 520 / W20 | K7 | 506 / D6 |
| C1 | 518 / W18 | N13Y | 405 / RN14YC | N2 | 818 / RN2C | GH44 | 518 / W18 | K7 | 506 / D6 |
| ORD-1 | 588 / XMJ14 | RN13L | 101 / RN13LYC | RN2 | 818 / RN2C | 45 | 562 / W95D | N7Y | 332 / RN7YC |
| TAC-1 | 610 / REL88B | 14 | 541 / RD16 | RN2G | 818 / RN2C | 46 | 562 / W95D | R7B | 506 / D6 |
| 10 | 541 / RD16 | A14 | 525 / 25 | TAC-2 | 612 / RML12 | 49 | 543 / D89D | RN7Y | 332 / RN7YC |
| 10-COM | 523 / D23 | A14-0 | 525 / 25 | UJ2J | 825 / J4C | E49 | 505 / ED89D | XE7 | 563 / XED16 |
| 10-COM-64 | 523 / D23 | C14 | 525 / 25 | 20 | 520 / W20 | XE49 | 505 / ED89D | XEJ7 | 557 / XEJ8 |
| C10S | 557 / XEJ8 | EJ14 | 567 / XEJ12 | RJ20Y | 58 / RJ18YC | 5 | 429 / 3X | XEL7A | 610 / REL88B |
| D10 | 509 / D9 | F14Y | 21 / RF14YC | 21 | 510 / W10 | 5-COM | 509 / D9 | XJ7 | 871 / RJ8C |
| EH10 | 610 / REL88B | FN14LY | 412 / RC12LYC | XED21 | 563 / XED16 | 5M | 509 / D9 | 72 | 510 / W10 |
| H10 | 854 / RH10C | H014S | NR | 22 | 520 / W20 | 5MJ | 509 / D9 | 73 | 510 / W10 |
| J10-COM | 102 / RJ6C | J14 | 592 / RJ12C | J23 | 525 / 25 | C5 | 569 / W14 | RB75WPC | 242 / RB75WPCC |
| J10-COM-J | 102 / RJ6C | J14-64CL | 599 / J99 | A24 | 525 / 25 | J5J | 102 / RJ6C | D77V | 506 / D6 |
| J10Y | 14 / RJ12YC | J14C1 | 599 / J99 | G24 | 525 / 25 | L5 | 874 / RL82C | HW77N | 596 / RHM77N |
| RF10 | 129 / RF10C | J14J | 846 / CJ14 | A25 | 525 / 25 | L5J | 874 / RL82C | RM78P | 519 / RM77N |
| RH10 | 854 / RH10C | J14Y | 63 / RJ14YC | A26 | 541 / RD16 | N5 | 123 / RN5C | REN79G | NR |
| RN10Y | 322 / RN11YC4 | J14YC | 63 / RJ14YC | 29 | 525 / 25 | RN5 | 123 / RN5C | 8 | 541 / RD16 |
| UK10 | 509 / D9 | MJ14 | 588 / XMJ14 | 3 | 561 / W16Y | X5-COM | 509 / D9 | 8-COM | 541 / RD16 |
| XEH10 | 610 / REL88B | N14LY | 101 / RN13LYC | 3-COM | 518 / W18 | A53 | 518 / W18 | 8-COM-C | 523 / D23 |
| RWP102 | 582 / RW82P | N14Y | 405 / RN14YC | N3 | 880 / RN3C | AA53 | 518 / W18 | 8-COM-D | 523 / D23 |
| 0N11Y | 322 / RN11YC4 | RD14M | 514 / D14 | RN3 | 880 / RN3C | B53 | 561 / W16Y | 8-COM-K | 526 / RD15Y |
| 11 | 541 / RD16 | RD14M | 514 / D14 | 30 | 525 / 25 | JA53 | 518 / W18 | 8-SPEC | 541 / RD16 |
| EH11 | 610 / REL88B | RF14Y | 21 / RF14YC | 31 | 525 / 25 | JC53 | 518 / W18 | D8 | 597 / K97F |
| EJ11 | 567 / XEJ12 | RF14Y4 | 21 / RF14YC | 32 | 525 / 25 | 00-55-1 | 627 / F-6A-13 | DJ8 | 865 / RDJ8J |
| F11Y | 22 / RF11YC | RJ14Y | 63 / RJ14YC | 34 | 525 / 25 | 00-55-2 | NR | DL8 | 597 / K97F |
| F11YC | 22 / RF11YC | RN14Y | 405 / RN14YC | A34 | 525 / 25 | 00-55-3 | NR | DL8C | 597 / K97F |
| H11 | 854 / RH10C | UEJ14 | 567 / XEJ12 | 35 | 520 / W20 | 6 | 518 / W18 | E8-COM | 563 / XED16 |
| H11J | 854 / RH10C | XD14 | 514 / D14 | 35-COM | 518 / W18 | 6-COM | 514 / D14 | ED8 | 597 / K97F |
| J11 | 511 / J11C | XEJ14 | 567 / XEJ12 | CH36001 | 547 / RTM77N | 6-COM-62 | 514 / D14 | EDL8 | 597 / K97F |
| J11J | 511 / J11C | 15 | 541 / RD16 | CH36002 | 548 / RTM79 | 6-COM-D | 514 / D14 | EH08 | 610 / REL88B |
| J11Y | 14 / RJ12YC | 15A | 541 / RD16 | CH36003 | 540 / RTN79G | 6M | 514 / D14 | EH8 | 610 / REL88B |
| K11 | 509 / D9 | 15-SPEC | 541 / RD16 | CH36004 | 556 / RTL85G | 6MJ | 506 / D6 | EJ8 | 557 / XEJ8 |
| N11Y | 322 / RN11YC4 | A15 | 525 / 25 | CH36006 | NR | DJ6 | 851 / DJ6J | EJ8J | 557 / XEJ8 |
| RBL11Y6 | 79 / RV15YC6 | C15 | 502 / D21 | CH36007 | NR | DJ6Y | 872 / RDJ7Y | H08A | 533 / UJ11G |
| RF11Y | 22 / RF11YC | JI15 | 514 / D14 | CH36008 | 556 / RTL85G | EJ6 | 557 / XEJ8 | J8 | 871 / RJ8C |
| RJ11Y | 14 / RJ12YC | K15J | 514 / D14 | CH36009 | 540 / RTN79G | EJ6J | 557 / XEJ8 | J8J | 871 / RJ8C |
| RN11Y | 322 / RN11YC4 | UD15Y | 526 / RD15Y | CH36010 | 625 / D78Y | J6 | 102 / RJ6C | JT8 | 840 / RCJ8 |
| RN11YC | 322 / RN11YC4 | XEC15 | 563 / XED16 | REB37E | NR. | J6J | 102 / RJ6C | K8 | 509 / D9 |
| XEH11 | 610 / REL88B | 16 | 541 / RD16 | CH38016 | NR. | J6JM | 102 / RJ6C | N8 | 123 / RN5C |
| XEJ11 | 567 / XEJ12 | C16C | 561 / W16Y | 4 | 561 / W16Y | N6 | 123 / RN5C | RJ8 | 871 / RJ8C |
| XH11 | 854 / RH10C | ED16 | 563 / XED16 | 4-COM | 506 / D6 | N6Y | 339 / RN6YC | RJ8J | 871 / RJ8C |
| UK112 | 506 / D6 | H16 | 506 / D6 | C4X | 561 / W16Y | RD6 | 506 / D6 | RN8 | 123 / RN5C |
| EJ12 | 567 / XEJ12 | H16A | 506 / D6 | J4 | 825 / J4C | RJ6 | 102 / RJ6C | TJ8J | 840 / RCJ8 |
| J12 | 592 / RJ12C | N16Y | 405 / RN14YC | J4J | 825 / J4C | RJ6J | 102 / RJ6C | UCJ8G | 840 / RCJ8 |
| J12Y | 14 / RJ12YC | N16YC | 405 / RN14YC | N4 | 104 / RN4C | RN6 | 123 / RN5C | UJ8 | 871 / RJ8C |
| K12G | 514 / D14 | RD16J | 541 / RD16 | QC4 | 561 / W16Y | RN6Y | 339 / RN6YC | X8-COM | 541 / RD16 |
| KJ12 | 592 / RJ12C | RD16M | 541 / RD16 | RJ4 | 825 / J4C | UJ6 | 102 / RJ6C | XE8-COM | 563 / XED16 |
| N12Y | 404 / RN12YC | RN16Y | 405 / RN14YC | RJ4J | 825 / J4C | UJ6M | 102 / RJ6C | XEH8 | 557 / XEJ8 |
| RF12 | 129 / RF10C | UED16 | 563 / XED16 | RN4 | 104 / RN4C | X6-COM | 514 / D14 | XEH8J | 557 / XEJ8 |
| RF12-5 | 129 / RF10C | UK16V | 506 / D6 | TAC-4 | 603 / XML12 | XD6E6-COM | 572 / XED14 | XEJ8J | 557 / XEJ8 |
| RJ12Y | 14 / RJ12YC | XD16 | 541 / RD16 | X4-COM | 506 / D6 | XE6-COM | 572 / XED14 | XJ8 | 871 / RJ8C |
| RJ12Y6 | 66 / RJ18YC6 | XD16J | 541 / RD16 | 40 | 597 / K97F | XEJ6 | 557 / XEJ8 | XJ8J | 871 / RJ8C |
| RJ12YC6 | 66 / RJ18YC6 | H17 | 509 / D9 | 41 | 597 / K97F | XEJ6J | 557 / XEJ8 | HW80N | 532 / RHW80N |
| RN12Y | 404 / RN12YC | H17A | 509 / D9 | 42 | 597 / K97F | 62S | 572 / XED14 | RF80N | 129 / RF10C |
| XH12 | 854 / RH10C | 18 | 514 / D14 | 43 | 518 / W18 | A64 | 541 / RD16 | RGC80N | NR. |
| 13 | 541 / RD16 | H18Y | 857 / RH18Y | A43 | 569 / W14 | 7 | 541 / RD16 | RGC80N | NR F74 / DN70E |
| A13 | 525 / 25 | J18Y | 58 / RJ18YC | B43 | 561 / W16Y | 7-COM | 541 / RD16 | RM80F | 571 / RM79F |
| J13 | 525 / 25 | J18YC | 58 / RJ18YC | JA43 | 561 / W16Y | C7 | 541 / RD16 | 808 | 529 / D14N |





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| Discont'd Replaced | Discont'd Replaced | Discont'd Replaced | Discont'd Replaced | Discont'd Replaced |
|-----------------------------|--------------------|--------------------|--------------------|--------------------|
| | | | | |
| Plug By Plug | Plug By Plug | Plug By Plug | Plug By Plug | Plug By Plug |
| EC85N 534 / REW80N | | | | |
| RL85P 1224 / RL85G | | | | |
| | | | | |
| TN85Y 540 / RTN79G | | | | |
| RL86 830 / RL86C | | | | |
| C87S 610 / REL88B | | | | |
| L87Y 327 / RL87YC | | | | |
| | | | | |
| RJ87P 14 / RJ12YC | | | | |
| RL87Y 327 / RL87YC | | | | |
| C88 610 / REL88B | | | | |
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| ED88F 505 / ED89D | | | | |
| H88 538 / RH8C | | | | |
| K88S 610 / REL88B | | | | |
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| RC88S 610 / REL88B | | | | |
| UED88G 572 / XED14 | | | | |
| RHL89G NR | | | | |
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| | | | | |
| XED89D 505 / ED89D | | | | |
| XED89DXI 505 / ED89D | | | | |
| 9 502 / D21 | | | | |
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| | | | | |
| D9J 509 / D9 | | | | |
| D9JM 509 / D9 | | | | |
| ED9 550 / ED14 | | | | |
| EH9 610 / REL88B | | | | |
| | | | | |
| F9Y 409 / RF9YC | | | | |
| F9YC 409 / RF9YC | | | | |
| H9 538 / RH8C | | | | |
| H9-COM 538 / RH8C | | | | |
| | | | | |
| H9J 538 / RH8C | | | | |
| K9 509 / D9 | | | | |
| N9Y 415 / RN9YC | | | | |
| RD9 509 / D9 | | | | |
| RF9Y 409 / RF9YC | | | | |
| | | | | |
| RF9Y5 409 / RF9YC | | | | |
| RN9Y 415 / RN9YC | | | | |
| XD9 509 / D9 | | | | |
| XE9 572 / XED14 | | | | |
| | | | | |
| XED9-COM 572 / XED14 | | | | |
| XEH9 610 / REL88B | | | | |
| XH9 538 / RH8C | | | | |
| EW90 NR | | | | |
| | | | | |
| | | | | |
| ED91 505 / ED89D | | | | |
| HC95F 544 / HW83F | | | | |
| K98F 597 / K97F | | | | |
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CAUTION. DO NOT USE THIS CHART UNLESS YOU ARE UNABLE TO FIND YOUR VEHICLE OR EQUIPMENT LISTED IN THE APPLICATION SECTIONS OF THIS CATALOG.

| | | | | A/C Delco | To Champion | | | | |
|--|---|---|---|--|---|---|---|---|--|
| A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champion | A/C Delco | Champior |
| 73 | D9 / 509 | WR43LR | RML12 / 612 | C77L | W18 / 518 | C77 | W16Y / 561 | C75 | W14 / 5 |
| 73 | W10 / 510 | 800LY | B86N / 542 | 78S | W20 / 520 | 701Y | W85N / 545 | 700YX | W80N / 5 |
| 00Y | W80N / 580 | 43LS | H14Y / 91 | 18A | D89D / 543 | C83 | D9 / 509 | 404 | RL85G / 12 |
| 85S | RD15Y / 526 | 373 | D6 / 506 | 26 | 25 / 525 | 18 | W89D / 589 | 17 | W95D / 5 |
| 6 | K97F / 597 | 14 | K97F / 597 | WR87 | XMD21 / 521 | WR86 | XMD21 / 521 | WR84 | XMD15 / 6 |
| /R47 | XMJ14 / 588 | WR46 | XMJ17 / 517 | WR44LS | XML15Y / 633 | WR44 | XMJ14 / 588 | 16L | K97F / 5 |
| 82F | D9 / 509 | WR43L | XML12 / 603 | WR43 | XMJ14 / 588 | SR86E | XED16 / 563 | SR84E | XED14 / 5 |
| R47XL | XEN14 / 614 | SR47LE | REL88B / 610 | SR47E | XEJ12 / 567 | SR46E | XEJ12 / 567 | SR45LE | REL88B / 6 |
| R44E | XEJ8 / 557 | SR43LE | REL88B / 610 | SR43E | XEJ8 / 557 | C81 | D14N / 529 | S83F | D9 / 5 |
| 82 | D9 / 509 | R800 | RM77N / 519 | G59 | 25 / 525 | G56 | 25 / 525 | G54 | C95F / 5 |
| 53 | C95F / 595 | CR83 | D9 / 509 | CR82 | D9 / 509 | C88L | D23 / 523 | C88 | D21/ |
| 87 | D16 / 516 | C86S | D18Y / 549 | C86 | D14N / 529 | C86 | D14 / 514 | S85F | D14/5 |
| 85 | D14 / 514 | | | | | | | | |
| | | | Al | lis-Chalme | rs To Champic | on | | | |
| Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champion | Allis-Chalmers | Champio |
| 4905796 | N5C / 120 | 79001652 | J6C / 823 | 79001651 | N5C / 120 | 74905800 | D16 / 516 | 74905798 | N5C / 1 |
| 907335 | J8C / 841 | 4905800 | D16 / 516 | 4905797 | N5C / 120 | | | | |
| | 0007011 | | 5.070.0 | | o Champion | | | | ı |
| Autolite | Champion | Autolite | Champion | Autolite | Champion | Autolite | Champion | Autolite | Champio |
| 222 | - | 373 | | 2247 | | 2246 | - | 2245 | • |
| 244 244 | XED14 / 572 XEJ8 / 557 | 2243 | D9 / 509 | 2242 | XMJ20 / 573 | 2227 | XEJ12 / 567 | 2226 | XMJ17 / 5 |
| | | 2285 | XMJ14 / 588 | 2223 | XEJ8 / 557 | 2304 | XMD21 / 521 | 436 | XMD21 / 5 |
| 225 98 | XED16 / 563 | 388 | REL88B / 610 | 386 | XMD15 / 649 | 379 | XMN12 / 616 | 378 | H14Y / |
| 90 77 | N21 / 504 | 376 | D21 / 502 | 375 | RD16 / 541 | 374 | D89D / 543 | 2224 | D23 / 5 |
| 696 | D21 / 502 | 3116 | D16 / 516 | 3095 | D14 / 514 | 3077 | D9 / 509 | 3076 | XMD21/5 |
| 075 | D9 / 509 | 3074 | D18Y / 549 | 3035 | 25 / 525 | 2832 | W89D / 589 | 2775 | W14 / 5 |
| 075 773 | W14 / 569 | | W10 / 510 | | UD16 / 555 | | D6 / 506 | | D16 / 5 |
| 693 | D9 / 509 | 2248 | XEJ12 / 567 | 2697 | D14 / 514 | 372 2344 | D6 / 506 | 2695 2327 | D6 / 5 |
| 326 | D6 / 506 REL88B / 610 | | XML12 / 603 REL88B / 610 | 2384 2307 | XML15Y / 633 | 2305 | RML12 / 612 XMN12 / 616 | | REL88B / 6 |
| 320 | RELOOB / 010 | 2323 | REL00B / 010 | | XEN14 / 614 Champion | 2303 | AWIN 12 / 010 | 2112 | D9/5 |
| | | | | | | | | | |
| BERU 8GZ7 | Champion | BERU 143CPU | Champion | 14R4ADP | Champion | BERU 14R4CDP | Champion | BERU | Champior |
| 8GZ577 | RB76N / 576 RB75WPCC / 242 | | RN79G / 530 RB77WPC / 636 | 14K4ADP | RL85G / 1224 | 14R4CDP | RN79G / 530 | 14R4DP | RL85G / 12 |
| 002011 | KB/3WF 00 / 242 | 1002077 | KB11WFC/030 | BG To (| Champion | | | | |
| | | | | | | | | | |
| 3G | Champion | BG | Champion | BG | Champion | BG | Champion | BG | Champior |
| | | | | | | | | | |
| RB485S | RHM85G / 585 | RB485SA | RHM85G / 585 | RB590 | RL85G / 1224 | RB590S | REL89G / 522 | RB792S | RHL79G / 5 |
| B842S | RHM85G / 585 RHW80N / 532 | RB485S | REM84P / 503 | RB959SA | RL85G / 1224 RHM77N / 596 | RB212 | RW82P / 582 | RB959S | RHM77N / 5 |
| B842S B485 | RHM85G / 585 RHW80N / 532 RM85G / 591 | RB485S RB442SAW | REM84P / 503 RHM83N / 583 | RB959SA RB993R | RL85G / 1224 RHM77N / 596 RN79G / 530 | RB212 RB312S | RW82P / 582 REW82P / 578 | RB959S RB442SW | RHM77N / 5 RHM83N / 5 |
| B842S B485 B126SD | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 | RB485S RB442SAW | REM84P / 503 | RB959SA RB993R | RL85G / 1224 RHM77N / 596 | RB212 RB312S | RW82P / 582 | RB959S RB442SW | RHM77N / 5 RHM83N / 5 |
| B842S B485 B126SD | RHM85G / 585 RHW80N / 532 RM85G / 591 | RB485S RB442SAW | REM84P / 503 RHM83N / 583 | RB959SA RB993R RB106 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 | RB212 RB312S | RW82P / 582 REW82P / 578 | RB959S RB442SW | RHM77N / 5 RHM83N / 5 |
| B842S B485 B126SD | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 | RB485S RB442SAW | REM84P / 503 RHM83N / 583 | RB959SA RB993R RB106 | RL85G / 1224 RHM77N / 596 RN79G / 530 | RB212 RB312S | RW82P / 582 REW82P / 578 | RB959S RB442SW | RHM77N / 5 RHM83N / 5 |
| B842S B485 B126SD B412 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 | RB485S RB442SAW | REM84P / 503 RHM83N / 583 | RB959SA RB993R RB106 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 | RB212 RB312S | RW82P / 582 REW82P / 578 | RB959S RB442SW | RHM77N / 5 RHM83N / 5 ED89D / 5 |
| B842S B485 B126SD B412 Bosch | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion | RB485S RB442SAW RB1141 Bosch | REM84P / 503 RHM83N / 583 RW77N / 565 Champion | RB959SA RB993R RB106 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion | RB212 RB312S BG883T | RW82P / 582 REW82P / 578 RF10C / 129 Champion | RB959S RB442SW RB312S Bosch | RHM77N / 5 RHM83N / 5 ED89D / 5 Champio |
| B842S B485 B126SD B412 Bosch | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion | RB485S RB442SAW RB1141 Bosch M8AC0 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 | RB959SA RB993R RB106 Bosch To | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion | RB212 RB312S BG883T | RW82P / 582 REW82P / 578 RF10C / 129 Champion | RB959S RB442SW RB312S | RHM77N / 5 RHM83N / 5 ED89D / 5 Champio |
| B842S B485 B126SD B412 Bosch B4A2 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 | RB485S RB442SAW RB1141 Bosch M8AC0 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 | RB959SA RB993R RB106 Bosch To Bosch M8A0 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 | RB212 RB312S BG883T Bosch M8A | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 | RB959S RB442SW RB312S Bosch M7AC | RHM77N / 5 RHM83N / 5 ED89D / 5 Champio D6 / 5 |
| B842S B485 B126SD B412 B412 B412 B30sch I4A2 I7A | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 D16 / 516 | RB212 RB312S BG883T Bosch M8A W10C | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 | RB959S RB442SW RB312S Bosch M7AC M4AC | RHM77N / 5 RHM83N / 5 ED89D / 5 Champio D6 / 5 D14 / 5 |
| B842S B485 B126SD B412 B412 B412 B412 B412 B412 B412 B412 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 D16 / 516 D6 / 506 | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A | RHM77N / 5 RHM83N / 5 ED89D / 5 Champior D6 / 5 D14 / 5 RN79G / 6 |
| B842S B485 B126SD B412 B412 B412 B412 B412 B412 B4110A0 B4110A | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 D16 / 516 | RB212 RB312S BG883T Bosch M8A W10C M10AC0 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KII332 | RHM77N / 5 RHM83N / 5 ED89D / 5 Champion D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 |
| B842S B485 B126SD B412 B412 B6412 B6412 B74 B74 B74 B74 B74 B74 B74 B74 B74 B74 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 D16 / 516 D6 / 506 RM77PP / 217 | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KII332 | RHM77N / 5 RHM83N / 5 ED89D / 5 Champio D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 |
| B842S B485 B126SD B412 B412 B412 B412 B412 B412 B410 B412 B410 B412 B412 B412 B412 B412 B412 B412 B412 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 RB75WPCC / 242 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion Champion D9 / 509 D6 / 506 D16 / 516 D6 / 506 RM77PP / 217 RB77WPCC / 634 | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KII332 | RHM77N / 5 RHM83N / 5 ED89D / 5 Champion D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 |
| B842S B485 B126SD B412 30sch I4A2 I7A I10A0 0999S IR3DPP330 307 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 230 RB75WPCC / 242 RB77CC / 237 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 516 D6 / 506 RM77PP / 217 RB77WPCC / 634 Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 | RB959S RB442SW RB312S Bosch M7AC M4AC M40A WR3CPP33 FR3KII332 7302 | RHM77N / 5 RHM83N / 5 RD89D / 5 Champior D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 |
| B842S B485 B126SD B412 Bosch M4A2 M7A M10A0 M999S MR3DPP330 MR3DP330 MR3DPP330 MR3DPP330 MR3DPP330 MR3DP3 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 RB75WPCC / 242 RB77CC / 237 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 Champion | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 Case To Case | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 506 RM77PP / 217 RB77WPCC / 634 Champion Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KII332 7302 | RHM77N / 5 RHM83N / 5 RED89D / 5 Champio D6 / 5 D16 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 Champio |
| B842S B485 B126SD B412 Bosch M4A2 M7A M10A0 M999S MR3DPP330 MR3DP330 MR3DPP330 MR3DPP330 MR3DPP330 MR3DP3 | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 230 RB75WPCC / 242 RB77CC / 237 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5AC M7306 Case To Case TG44840 | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 506 RM77PP / 217 RB77WPCC / 634 Champion Champion Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 | RB959S RB442SW RB312S Bosch M7AC M4AC M40A WR3CPP33 FR3KII332 7302 | RHM77N / 5 RHM83N / 5 RED89D / 5 Champio D6 / 5 D16 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 Champio |
| RB842S RB485 RB126SD RB412 RB412 RB412 RB412 RA42 R7A M10A0 0999S MR3DPP330 307 0999Z | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 RB75WPCC / 242 RB77CC / 237 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 Champion | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 Case To Case TG44840 Caterpillar | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 506 RM77PP / 217 RB77WPCC / 634 Champion Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KII332 7302 | RHM77N / 5 RHM83N / 5 RD89D / 5 Champior D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 Champior |
| B8842S B485 B126SD B412 B3osch M4A2 M7A M10A0 0999S MR3DPP330 307 0999Z Case O5999AB Caterpillar | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 RB75WPCC / 242 RB77CC / 237 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ Case O5999B Caterpillar | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 Champion | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 Case To Case TG44840 Caterpillar Caterpillar | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 506 RM77PP / 217 RB77WPCC / 634 Champion Champion Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 Case TM20007 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 Champion H10C / 844 Champion | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KI332 7302 Case TM20699 | RHL79G / 5 RHM77N / 5 RHM83N / 5 ED89D / 5 Champior D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 Champior L86C / 3 |
| B8842S B485 B126SD B126SD B412 B3osch M4A2 M7A M10A0 0999S MR3DPP330 307 0999Z Case O5999AB | RHM85G / 585 RHW80N / 532 RM85G / 591 RHW77N / 577 RW82P / 582 Champion D6 / 506 D6 / 506 D14 / 514 RB77WPCC / 634 FB77WPCC / 1230 RB75WPCC / 242 RB77CC / 237 Champion J8C / 841 | RB485S RB442SAW RB1141 Bosch M8AC0 M5AS M4A1 7311 MR3DPP330 WR7CE+ Case O5999B | REM84P / 503 RHM83N / 583 RW77N / 565 Champion D9 / 509 D6 / 506 D6 / 506 RN79G / 642 KB77WPCC / 229 RN5C / 123 Champion J8C / 841 Champion H10C / 844 | RB959SA RB993R RB106 Bosch To Bosch M8A0 M5AC M12A M5A MR3BPP330 7306 Case To Case TG44840 Caterpillar | RL85G / 1224 RHM77N / 596 RN79G / 530 RS79N / 598 Champion D9 / 509 D6 / 506 D16 / 516 D6 / 506 RM77PP / 217 RB77WPCC / 634 Champion Champion D16 / 516 Champion Champion D16 / 516 To Champion | RB212 RB312S BG883T Bosch M8A W10C M10AC0 7306 MR3DPP33 7303 Case TM20007 | RW82P / 582 REW82P / 578 RF10C / 129 Champion D9 / 509 N21 / 504 D14 / 514 KB77WPCC / 229 RB75PP / 225 RM77PP / 217 Champion H10C / 844 | RB959S RB442SW RB312S Bosch M7AC M4AC M10A WR3CPP33 FR3KI332 7302 Case TM20699 | RHM77N / 5 RHM83N / 5 ED89D / 5 Champior D6 / 5 D14 / 5 RN79G / 6 RC78WYP15 / 12 RB75PP / 2 Champior L86C / 3 |



CAUTION. DO NOT USE THIS CHART UNLESS YOU ARE UNABLE TO FIND YOUR VEHICLE OR EQUIPMENT LISTED IN THE APPLICATION SECTIONS OF THIS CATALOG.

| | | | Char | npion Plug Type | To Cham | pion | | | |
|-------------------------------------|--|---------------------------------------|---------------------------------------|--------------------------------------|---------------------------------------|---------------------------------------|--------------------------|----------------------|------------------------|
| Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion | Champion Plug | Champion |
| Туре | | Туре | · · · · · · · · · · · · · · · · · · · | Туре | · · · · · · · · · · · · · · · · · · · | Туре | · . | Туре | • |
| RB77WPCC (Gap .007 | 7) 1205 | RTM77PP (Gap .012) | 223 | RTM77N (Gap .019) | | RTM77N (Gap .012) | 214 | W20 (Gap .025) | 520 |
| RM77N (Gap .020) | 641 | D14N (Gap .015) | 529 | RM77N (Gap .015) | | RHM77N (Gap .020) | 213 | RB77WPCC (Gap .012) | 634 |
| REM77N (Gap .015) | 568 | M76R (Gap .016) | 647 | RHM83N (Gap .015) | 583 | D78Y (Gap .015) | 625 | RB77WPC (Gap .012) | 636 |
| RB77CC (Gap .012) | 237 | RTB77WPCC (Gap .012 |) 235 | KB77WPCC (Gap .012) | 229 | RB76PP (Gap .012) | 226 | RB76N (Gap .012) | 576 |
| RHM77N (Gap .015) | 596 | RHB81N (Gap .012) | 624 | RM77N (Gap .012) | | RB75WPCC (Gap .012) | 242 | B86N (Gap .012) | 542 |
| RM85G (Gap .013) | 591 | RHM85G (Gap .015) | 585 | REM84P (Gap .015) | | RHM83N (Gap .025) | 639 | RM82WPCC (Gap .012) | 233 |
| M82N (Gap .015) | | RTM82WPCC (Gap .012 | 1225 | RHM78N (Gap .015) | 234 | RTN79WYP (Gap .015) | 1232 | RTB80N (Gap .012) | 646 |
| RTM79 (Gap .025) | 548 | RM79F (Gap .015) | 571 | RTM78N (Gap .019) | | RTM78N (Gap .012) | 1201 | RTB78N (Gap .012) | 1203 |
| RHM78WPCC (Gap .0 | 12) 236 | RHM78PP (Gap .012) | | M82N (Gap .012) | | RW78N (Gap .012) | 631 | W80N (Gap .013) | |
| XMJ20 (Gap .025) | 573 | XMJ14 (Gap .025) | 588 | XEJ12 (Gap .025) | 567 | XEJ8 (Gap .025) | 557 | RHW77N (Gap .015) | |
| RM77PP (Gap .015) | | RW77N (Gap .015) | 206 | RB75PP (Gap .012) | 225 | | 228 | W77N (Gap .012) | |
| RJ88P (Gap .015) | | RHW78N (Gap .012) | 635 | RML12 (Gap .025) | | D89D (Gap .025) | 543 | ED89D (Gap .025) | |
| K97F (Gap .020) | | RHW79N (Gap .012) | 579 | REW80N (Gap .012) | | RGC80F (Gap .013) | 623 | RHW80N (Gap .013) | 532 |
| RHW80PP (Gap .012) | | RTW80N (Gap .012) | | RW80N (Gap .012) | 553 | | | RW80PP (Gap .012) | 1207 |
| W77N (Gap .015) | 539 | RC78PYP17 (Gap .017) | 232 | D14 (Gap .025) | | D9 (Gap .025) | 509 | RTN79G (Gap .015) | 540 |
| RN79PYP17 (Gap .01 | | RN79G (Gap .025) | 642 | RN79G (Gap .015) | | XEN14 (Gap .025) | 614 | | 616 |
| RHN79G (Gap .015) | 575 | RC78WP (Gap .012) | 1206 | RC78YCC15 (Gap .015) | 1209 | TJ83 (Gap .025) | 594 | RC78PYP21 (Gap .021) | |
| RW77N (Gap .012) | 565 | RC78PYP15 (Gap .015) | 243 | RC78PYP (Gap .021) | | RC78PYP (Gap .017) | 1208 | RC78PYP (Gap .015) | 218 |
| RX85PYP (Gap .012) | 230 | REL89G (Gap .015) | 522 | REL88B (Gap .020) | | RTL85G (Gap .015) | 556 | RHL79G (Gap .015) | |
| XML15Y (Gap .025) | | RL15B (Gap .015) | 535 | XML12 (Gap .025) | 603 | RC78PYP25 (Gap .025) | 241 | N21 (Gap .025) | |
| W18 (Gap .025) | 518 | W16Y (Gap .025) | 561 | W14 (Gap .030) | 569 | | 510 | | |
| D16J (Gap .030) | 564 | D18Y (Gap .027) | 549 | RD16 (Gap .027) | | RD15Y (Gap .027) | 526 | | |
| D23 (Gap .030) | 523 | D14N (Gap .025) | 204 | D6 (Gap .027) | | Y82 (Gap .020) | 877 | D21 (Gap .027) | 502 |
| H14Y (Gap .035) | 91 | W80N (Gap .020) | 202 | J99 | | RTV85G (Gap .025) | 1220 | RD18Y (Gap .035) | |
| XMD21 (Gap .025) | 521 | XMJ17 (Gap .025) | 517 | RN79PYP25 (Gap .025) | | RN79G1 (Gap .010) | 224 | RL85G (Gap .015) | |
| D15Y (Gap .027) | | RS79N (Gap .012) | 598 | REW82P (Gap .012) | | RW82P (Gap .012) | 582 | HW83F (Gap .012) | |
| RTW83F (Gap .012) | 645 | RW83F (Gap .012) | 559 | W85N (Gap .013) | 545 | | 203 | | 589 |
| C95F (Gap .020) XED16 (Gap .025) | 595 563 | W95D (Gap .040) ED14 (Gap .025) | 562 | RB75N (Gap .012) XED14 (Gap .025) | | RGM86N (Gap .013) XMD15 (Gap .025) | 586 | | 1230 |
| UD16 (Gap .025) | 555 | RC78WYP15 (Gap .015) | 550 1221 | RC78WYP11 (Gap .011) | | RC78PYP (Gap .012) | 1213 | | 513 1205 |
| RB77WPCC (Gap .007 | | | 1219 | | 516 | (Cup.012) | | (Cup :001) | |
| | 7 | :::\(\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ | | DENSO To Ch | | | | | |
| DENSO | Champion | DENSO | Champion | DENSO | Champion | DENSO | Champion | DENSO | Champion |
| MW22U | D9 / 509 | | 7WPCC / 229 | GE31 | RN79G / 642 | M22 | D9 / 509 | M24S | D6 / 506 |
| U20MU | Y82 / 877 | | 7WPCC / 229 | MW17U | D14 / 514 | W9EU | N21 / 504 | M17 | D14 / 514 |
| M14 | D16 / 516 | | D16 / 516 | | RD16 / 541 | | 75WPCC / 242 | | 75WPCC / 242 |
| | 2107010 | | | ssey-Ferguson | | | OWI 007212 | N.B. | 10111 00 7 2 12 |
| Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion | Massey-Ferguson | Champion |
| 834241MI | - | , , | D16 / 516 | , , | RF11YC / 22 | 834237MI | | 834241MI | RF11YC / 22 |
| 834245MI | D16 / 516 N5C / 120 | | | 834237MI | | | RF11YC / 22 | | J8C / 841 |
| 834248MI | RF10C / 129 | | N5C / 120 L86C / 306 | 834236MI | RF11YC / 22 N12YC / 38 | | L86C / 306 N12YC / 38 | 834234MI | L86C / 306 |
| 834234MI | L86C / 306 | | J11C / 511 | 834230MI | J8C / 841 | 834225MI | J8C / 841 | 834225MI | J8C / 841 |
| 1060024MI | RV12YC / 406 | | RV12YC / 406 | | RF10C / 129 | | J11C / 511 | 004220111 | |
| 10000Z-1W1 | KV12107400 | 100002-WII | NV 12 1 G / 400 | Motorcraft To C | | 00+202IWI | 31107311 | | |
| Motorcraft | Champion | Motorcraft | Champion | | | Motorcraft | Champion | Motorcraft | Champion |
| Motorcraft BT3 | Champion | Motorcraft BT2 | Champion | Motorcraft B4X | Champion | Motorcraft B6W | Champion | B82 | Champion |
| | D9 / 509 | | D6 / 506 | | D9 / 509 | BR7S | D14 / 514 | | D15Y / 515 |
| BR8S | D16 / 516 | | XED14 / 572 | BR5S BS5S | XMD15 / 649 | B3X | XMD21 / 521 | BR8 BT10 | RD16 / 541 |
| TT10 | XED16 / 563 W14 / 569 | BR9S BT4 | XMD21 / 521 | BT6 | XMD15 / 649 D14 / 514 | | D9/509 | BT9 | D21 / 502 D21 / 502 |
| BTS8 | D16 / 516 | | D9 / 509 UD16 / 555 | F11 | | TT15 | D16 / 516 W89D / 589 | TT8 | |
| A6S | XEJ8 / 557 | BT15 | D89D / 543 | BS9S | 25 / 525 XMD21 / 521 | AGR8S | XEN14 / 614 | TT4 | W14 / 569 W10 / 510 |
| AER3S | RML12 / 612 | | REL88B / 610 | A8S | XEJ12 / 567 | | XML15Y / 633 | AG9 | N21 / 504 |
| | | | XEN14 / 614 | | XML12 / 603 | | H14Y / 91 | AR10S | XEJ12 / 567 |
| | [Nu / Khui | | | | XEJ8 / 557 | B2W | D6 / 506 | | XMN12 / 616 |
| B3W | D9 / 509 XEJ8 / 557 | AR5S | XM.114 / 5891 | ASOS | | | | | |
| B3W AR4S | XEJ8 / 557 | AR5S AS7S | XMJ14 / 588 XMJ17 / 517 | AS6S AVR3S | | | | AGR3S ARI 8S | |
| B3W AR4S AR6S | XEJ8 / 557 XEJ8 / 557 | AS7S | XMJ17 / 517 | AVR3S | RML12 / 612 | AS5S | XMJ14 / 588 | ARL8S | REL88B / 610 |
| B3W AR4S AR6S ARL6S | XEJ8 / 557 XEJ8 / 557 REL88B / 610 | AS7S | | AVR3S | | AS5S | | ARL8S | |
| B3W AR4S AR6S | XEJ8 / 557 XEJ8 / 557 | AS7S | XMJ17 / 517 | AVR3S | RML12 / 612 | AS5S | XMJ14 / 588 | ARL8S | REL88B / 610 |
| B3W AR4S AR6S ARL6S | XEJ8 / 557 XEJ8 / 557 REL88B / 610 | AS7S | XMJ17 / 517 | AVR3S | RML12 / 612 | AS5S | XMJ14 / 588 | ARL8S | REL88B / 610 |



CAUTION. DO NOT USE THIS CHART UNLESS YOU ARE UNABLE TO FIND YOUR VEHICLE OR EQUIPMENT LISTED IN THE APPLICATION SECTIONS OF THIS CATALOG.

| | | | | STIT | T To Champion | | | | |
|------------|--------------|-------------|--------------|---------|---------------|----------|---------------|----------|--------------|
| STITT | Champion | STITT | Champion | STITT | Champion | STITT | Champion | STITT | Champion |
| R817L | RB75N / 643 | R717 | RW78N / 631 | R807 | RM77N / 519 | R80L | RB75N / 643 | R817L | RB76N / 576 |
| R847 | RD15Y / 526 | R847 | RD16 / 541 | RE72 | RW83F / 559 | S2SGA105 | REW82P / 578 | RF407L | RV12YC / 406 |
| R717 | RW77N / 565 | R45 | RJ88P / 644 | R40L | RL15B / 535 | R407XLC | RC78PYP / 218 | R407L | RL15B / 535 |
| R2SGA40L | RL85G / 1224 | R107 | RW80N / 553 | E84 | RM79F / 571 | CPR887 | RGM86N / 586 | S2SGA40L | RHL79G / 551 |
| CPM807 | RTM77N / 547 | S8MEX5 | ED89D / 505 | CPM80 | RTM79 / 548 | CPM80L | RTB80N / 646 | SE722 | HW83F / 544 |
| 897 | D14N / 529 | CPM2SGA40XL | RTN79G / 540 | U827 | RD16 / 541 | SR827 | RHM83N / 583 | SR817L | RHB81N / 624 |
| SR807 | RHM77N / 596 | SR7172 | RHW78N / 635 | SR7172 | RHW77N / 577 | SR1375 | REW80N / 534 | S8275 | REM77N / 568 |
| SR1072 | RHW80N / 532 | S2SGA40L5 | REL88B / 610 | S865 | XED16 / 563 | S825 | XED14 / 572 | S825 | ED14 / 550 |
| S47XL5MC | XEN14 / 614 | S475MC | XEJ12 / 567 | S40L5MC | REL89G / 522 | S405MC | XEJ8 / 557 | S2SGA805 | REM84P / 503 |
| S2SGA80 | RHM85G / 585 | S2SGA40XL | RHN79G / 575 | SR137 | RHW79N / 579 | 82 | D18Y / 549 | 912 | W89D / 589 |
| 847 | M82N / 566 | 827 | M82N / 566 | 727 | W77N / 539 | 719 | W18 / 518 | 197 | W20 / 520 |
| 117 | W80N / 580 | 107 | W80N / 580 | 86 | D23 / 523 | 137BSP | W16Y / 561 | 82 | D78Y / 625 |
| 15E | 25 / 525 | 82 | D16J / 564 | 82 | D16 / 516 | 82 | D15Y / 515 | 82 | D14 / 514 |
| 82 | D9 / 509 | 82 | D6 / 506 | 79 | W18 / 518 | 19 | C97B / 513 | 13 | W10 / 510 |
| 10 | W10 / 510 | 86 | D21 / 502 | 2SGA10 | RW82P / 582 | CPM10 | RTW80N / 638 | CPE72 | RGC80F / 623 |
| CP717 | RGC77N / 552 | 8MEX | D89D / 543 | 8MEX | K97F / 597 | 8ME | D89D / 543 | 8ME | K97F / 597 |
| 817L | B86N / 542 | 407XL | RC9YC4 / 430 | 407L | RJ6C / 102 | 137BSP | W85N / 545 | 2SGA40XL | RN79G / 530 |
| 147B | W14 / 569 | 17EX | C97B / 513 | 17EX | C95F / 595 | 17EX | W95D / 562 | 17EX | W89D / 589 |
| 17E | C95F / 595 | 17E | W95D / 562 | 17E | W89D / 589 | 17E | C97B / 513 | 15EX | 25 / 525 |
| CPM2SGA40L | RTL85G / 556 | 2SGA80 | RM85G / 591 | | | | | | |

Military Shielded Resistor Types

| Heat Range | Thread Size | Thread Reach | Champion | Ordnance Number | AC | Autolite (old) | Autolite (new) | Blue Crown |
|------------|----------------|-----------------|-------------------|--------------------|------------|-------------------|----------------|------------|
| нот | 18 mm | 1/2" | 563 / XED16 | | | BR10S | 2225 | SR8E13B |
| | | | 563 / XED16 | MS35911-1 | SR86E | BR8S | 2225 | SR8E15B |
| COLD | | | 572 / XED14 | MS35911-2 | SR84E | BR4S | 2222 | SR8E20 |
| нот | 18 mm | 1/2" | 521 / XMD21* | MS51009-1 | WR87 | BR9S | 2226 | SR8E13 |
| | | | 521 / XMD21* | MS51009-2 | WR86 | BR7S | 2224 | SR8E13 |
| COLD | | | 649 / XMD15* | MS51009-3 | WR84 | BR5S | 2223 | SR8E20B |
| нот | 14 mm | 3/8" | 567 / XEJ12 | MS35908-1 | SR47E | AR8S, AR10S | 2246 | SR6F14 |
| | | | 557 / XEJ8 | | SR46E | AR6S | 2244 | SR6F17 |
| | | | 557 / XEJ8 | MS35908-2 | SR44E | AR4S | 2242 | SR6F20C |
| COLD | | | 557 / XEJ8 | 7359620 | SR43E | | 2242 | |
| нот | 14 mm | 7/16" | XEH8** 557 / XEJ8 | MS35909-3 | SR47LE | ARL8S | 2325 | |
| | | | XEH8** 557 / XEJ8 | 8331648 | SR45LE | ARL6S | 2325 | SR7F14 |
| COLD | | | XEH8** 557 / XEJ8 | | SR43LE | ARL4S | 2325 | SR7F17 |
| НОТ | 14 mm | 3/8" | 573 / XMJ20* | MS35909-3 | WR47 | AR9S | 2247 | SR6F13 |
| | | | 517 / XMJ17* | MS35909-2 | WR46 | AR7S | 2245 | SR6F15 |
| COLD | | | 588 / XMJ14* | MS35909-1 | WR44, WR43 | AR5S | 2243 | SR6F20 |
| НОТ | 14 mm | 1/2" | 610 / REL88B | | WR42 | AER4S | 2344 | |
| | | | 633 / XML15Y* | MS35909-6 | | AER72S | 2384 | |
| | | | 603 / XML12* | MS35909-4 | WR44LS | AER3SA | 2384 | SR8F23B |
| COLD | | | 612 / RML12* | 8668752 | WR43L | AER3SA | 2344 | |
| нот | 14 mm | 3/4" | 614 / XEN14 | | WR43LR | AGR8S | | |
| | | | 614 / XEN14 | | SR47XL | AGR4S | | |
| COLD | | | 616 / XMN12* | 10863369 | | AGR3S | 2304 | |





Spark Plug Installation



The recommended procedure is to remove the old spark plug and install the new spark plug by hand until it contacts the gasket seat. A new gasket should always be used. By removing and installing the spark plug by hand, it will be easier to detect any problems in the thread area such as binding or looseness. Should problems be detected, refer to the NOTE section for recommended course of action. Once all spark plugs have been installed by hand, return to the first spark plug installed and tighten to correct torque. This will allow the spark plug temperature to stabilize with the cylinder head temperatures. (Figure 1)

| Torque Recommendations | | | | |
|------------------------|---------------------------|--------------------|-------------------|--|
| | | TORQUE WRENCH | | |
| SERVICE GASKET | SPARK PLUG THREAD SIZE | CAST IRON HEADS | ALUMINUM HEADS | |
| | Gasket Type | | | |
| N678 | 14mm | 26-30 lb-ft | 18-22 lb-ft | |
| A678 | 18mm | 32-38 lb-ft | 28-34 lb-ft | |
| A478 | 7/8" | 50-55 lb-ft | _ | |
| _ | 1-1/8" | 140-150 lb-ft | | |
| | Tapered Seat | | | |
| _ | 14mm | 7-15 lb-ft | 7-15 lb-ft | |
| — | 18mm | 15-20 lb-ft | 15-20 lb-ft | |

FIGURE 1

These torque values are for spark plugs installed in clean, dry threads and should be followed unless otherwise specified by the engine manufacturer. Excessive torque (over-torque) can lead to thread body stretch.

This may lead to shell seal leakage and poor heat transfer out of the spark plug, causing premature failure. The leakage can also result in ejection of the insulator from the shell. (Figure 2)

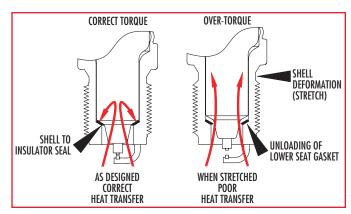


FIGURE 2

If the threads are lubricated, the torque value should be reduced 20%. Apply a very small amount only on the second thread from the firing end of the spark plug. No lubricant must be allowed on the firing end or anywhere on the upper area of the plug.

Spark plug cleanliness is essential for maximum spark plug life. All parts of the ignition system must be kept clean from dirt, oil, grease and paint. Any and all of these contaminants on the inside or outside of leads, boots and connections, or anywhere on the spark plug can cause misfire and/or shortened spark plug life.

NOTE. After the normal service life of a spark plug, one or more of the spark plugs may be a little difficult to remove. Penetrating oil may be used if the spark plug appears to be dangerously tight. Apply steady pressure with a spark plug wrench until the spark plug loosens. Once loosened, if the spark plug is still turning hard, apply more penetrating oil, then tighten and loosen the spark plug repeatedly until the spark plug rotates easily. Before removing the spark plug, blow any dirt from the port area that might be present to prevent it from falling into the combustion chamber.

If the spark plug appeared to be overly tight when removed by hand, it may be due to deposits collecting in the threaded area of the cylinder head. The threads should be cleaned with the proper size and length chaser tool, and the seat wiped clean to assure good seat contact before installing the new spark plug.

Recommended practice would be to clean spark plug port threads and seating area every six months or every spark plug change, whichever is longer. If chasing the threads does not allow hand installation of the spark plug, further investigation is necessary. At this point it might be necessary to use a tap to verify correct thread size. Before using a tap, it is critical to verify the correct size and pitch. This tap should only be used if the thread chaser does not permit installation of the spark plug by hand. Frequent use can result in unnecessary metal removal, causing the spark plug to be loose in the port. When using the thread chaser tool or tap, a heavy grease should be applied to the flutes to catch debris removed from the thread area.

If looseness is obvious, necessary steps must be taken to avoid serious problems. A loose fitting spark plug could result in torching of the thread area and/or pre-ignition if the heat transfer from the spark plug to the cylinder head is insufficient to cool the spark plug.



Corona vs. Flashover

Under certain atmospheric conditions, a pale bluish glow may be observed around a conductor carrying high voltage. You may have noticed that while driving at night, high-tension cross-country power lines may have an eerie blue glow about

them. You may also notice this glow on spark plug insulators if the engine is running in a darkened room. This glow is called corona, and it will not affect ignition output or engine performance. Corona does not indicate a faulty ignition system or spark plug.



Even if you never see corona it may leave a telltale, non-conductive, yellow or brown stain around the insulator near the top of the shell. This stain should not be



interpreted as leakage between the shell and insulator. This stain is caused by the corona discharge attracting airborne dirt to the insulator surface. Corona is not to be confused with flashover, a situation where the voltage actually tracks down the outside of the insulator, resulting in misfire. Corona is harmless and is characterized by a hissing sound, much different than the familiar "snap" caused by flashover.

Flashover occurs because the high tension lead at the spark plug terminal is not adequately sealed and the voltage requirement at the spark plugs firing end is higher than the voltage requirement to arc externally.

This external arcing is flashover. Typical causes of flashover are poor or damaged

ignition boots, dirty cap ends, high moisture/humidity, damaged spark plug insulators or worn firing end gaps. Flashover is identified



on the spark plug ceramic by blackened track marks where the spark has occurred externally and tracked down the surface of the insulator.

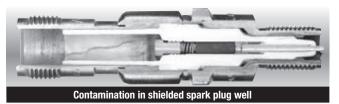
Champion provides cap end shapes to suit the needs of the application.
Champion's insulator, combined with good plug boots, will prevent harmful flashover.
Corona, however, can occur under any condition where high voltage is present.



Connector Well Flashover / Contamination



Shielded spark plugs have a unique set of challenges. One is contamination in the lead connector well. Contamination in this area of the plug often leads to the creation of a conductive path and eventually misfire due to flashover as seen in the quarter sectioned shielded spark plug photograph below.



Connector well contamination may be caused by material falling into the well, faulty or loose connections, moisture or contaminated leads. The lead connection and spark plug well should be carefully inspected for contamination and condition before assembly.

The terminal lead connector (stinger) must be free of contamination internally and externally. The lead connectors are typically ceramic and are designed to last until broken. However, in some cases the inner bore of the stinger can become contaminated. This condition is difficult to detect and can result in a misfire condition. The cause of the contamination may be oil or dirt that becomes lodged between the connector lead and inner bore of the stinger. The result is the formation of a conductive path that causes the spark to arc to ground internal to the stinger with little or no evidence noticeable upon removing the ignition lead from the spark plug well.

This condition is easily detected once the stinger is removed from the ignition lead. Inspection of the lead and bore of the stinger



may reveal arc etching of the ceramic and a corresponding mark on the ignition lead. If these marks are found the stinger/lead assembly must be replaced.

On the other hand, flashover external to the stinger whether it is from contamination, improper lead attachment or excessive voltages due to a worn out spark plug is often more easily identifiable as can be seen on the stinger in the photograph above. When arcing is found on the outside of the stinger, there is a good chance that the spark plug well also has been etched by the arc. If this is the case, both the stinger and the spark plug need to be replaced.

As greater demands are applied at the spark gap, the required voltage increases. This increased voltage will follow the path of least resistance. Contamination in the spark plug well or stinger assembly will contribute to the creation of alternate paths. Often-times replacement of the spark plug will eliminate the misfire. In the case of a contaminated well it will solve the problem. In the case of a contaminated stinger assembly a new plug with a tight gap and sharp edges will reduce the voltage requirement and provide a temporary solution. If plug life appears to steadily decrease the stinger assembly should be carefully inspected for contamination.





The Spark Plug's Relation to the Ignition System



The ignition system must be capable of supplying the voltage necessary to initiate a spark between the spark plug electrodes. In practice this means there must be considerable "ignition reserve" to compensate for normal wear of the spark plugs and components of the ignition system.

Ignition reserve is the difference between voltage available (Va) from the ignition system, and voltage required (Vr) by the spark plug. If at any time Vr equals Va, misfire will likely occur. (Figure 3)

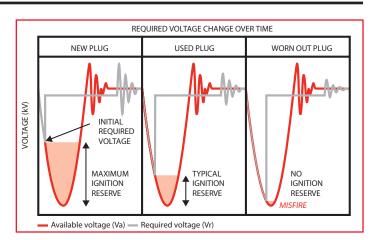


FIGURE 3



Factors Affecting Voltage Requirements (Vr)



COMPRESSION PRESSURE

Depending on the type of fuel, moisture content and voltage source, required voltage increases as pressures increase.

IGNITION TIMING

At TDC (top dead center), voltage requirements will be greatest due to high compression pressures. An advance in timing lowers Vr as pressure decreases. Since the advance creates higher flame temperature, Vr is further reduced by the hotter electrodes. Retarding timing past TDC also decreases Vr as pressures decrease, but appreciable losses of power and temperature result.

SPEED AND LOAD

High speed and load generally produces the highest Vr due to increased cylinder pressures despite the natural increase in electrode temperatures.

ELECTRODE TEMPERATURE

Voltage requirements will decrease as electrode temperatures increase and increase as temperatures decrease.

ELECTRODE CONDITION

Sharp, new electrodes concentrate the spark arcing by offering an easier path for current flow. As new plugs with well-defined electrodes wear, an increase in required voltage results.

ELECTRODE MATERIAL

Commonly used electrode materials are platinum, iridium, gold-palladium and nickel, in descending voltage equipment.

GAP SIZE

With other influencing factors being equal, required voltages will increase as gap size increases.

Multi-strike ignition: While multi-strike ignition can be beneficial for igniting the air-fuel charge, particularly in lean burn applications, it also accelerates gap wear. To minimize wear, use the fewest number of ignition strikes necessary to achieve complete combustion.

COIL POLARITY

Polarity is a design feature of each ignition system. Current flow from center electrode to ground electrode is referred to as "negative polarity." "Positive Polarity" is current flow from the ground electrode to center electrode. Most all manufacturers recommend negative polarity for best spark plug life and performance, since reversed or positive polarity will increase required voltages and substantially reduce ignition system reserve.

FUEL/AIR RATIO

With other factors being equal, voltage requirements will be lowest at the ideal stoichiometric fuel/air ratio. Voltage requirements increase with leaner mixtures because air is a poor conductor.

TURBOCHARGING

Turbo charging increases the voltage requirement because of higher cylinder pressures.



Factors Affecting Voltage Requirements (Vr) Continued



| L | LOW | COMPRESSION PRESSURE | HIGH | H |
|--------|-----------------------|-----------------------|-------------------|-----|
| 0 | ADVANCE AWAY FROM TDC | IGNITION TIMING | RETARD TOWARDSTDC | G G |
| W | LOW | SPEED AND LOAD | HIGH | H |
| W | НОТ | ELECTRODE TEMPERATURE | COLD | |
| V O | WELL DEFINED | ELECTRODE CONDITION | WORN | V |
| L | NICKEL | ELECTRODE MATERIAL | PLATINUM | 0 |
| T | NARROW | GAP SIZE | WIDE | ┇╏ |
| A | NEGATIVE | COIL POLARITY | POSITIVE | A |
| G | STOICHIOMETRIC | FUEL/AIR RATIO | LEAN | G |
| E | LOW | TURBOCHARGING | HIGH | Е |

FIGURE 4



Factors Affecting Spark Plug Tempertures



SPEED AND LOAD

As engine power requirements increase with speed and load, spark plug insulator temperatures increase proportionately. Temperatures at constant speed and load will remain relatively stable.

IGNITION TIMING

Ignition timing has one of the greatest effects on insulator temperature. Advances in timing subjects the insulator, as well as all other parts of the combustion chamber, to longer periods of flame exposure. Recommended spark plug heat ranges, therefore, must consider manufacturer's specified timing and fuel/air ratios. Any advances over specifications will increase insulator temperatures.

CYLINDER HEAD TEMPERATURES

Insulator temperatures will vary almost directly with cylinder head temperatures. A fifty degree increase in coolant temperature will increase the insulator temperature approximately fifty degrees-a negligible amount. In cases of localized cooling system blockages (liquid or air), it is possible to create severe overheating.

Extremes in ambient operating temperatures can be detrimental to cylinder head temperatures by creating a detonation or pre-ignition environment.

DETONATION

Detonation produces severe pressures and temperatures which may affect not only spark plug temperatures but also may impose severe stress on insulators, electrodes, pistons, valves, bearings and other engine components.

PRE-IGNITION

Pre-ignition will generally cause a very rapid and severe temperature rise in the spark plugs and other combustion chamber components.

INSTALLATION TORQUE

Over-torquing or under-torquing upon installation can impair heat transfer out of the spark plug, causing the spark plug to leak and run hotter, decreasing its life.

| | LOW | ENGINE SPEED | HIGH | |
|---|----------------|-------------------------------------|-------------------|---|
| | LOW | ENGINE LOAD | HIGH | |
| C | RETARDED | IGNITION TIMING | ADVANCED | н |
| ı | LOW | CYLINDER HEAD & COOLANT TEMPERATURE | HIGH | 0 |
| D | NONE | DETONATION | SEVERE | T |
| | NONE | PRE-IGNITION | SEVERE | |
| | CORRECT TORQUE | INSTALLATION TORQUE | OVER/UNDER-TORQUE | |

FIGURE 5





Heat Range Facts



The term "Heat range" refers to a spark plug's thermal characteristics: more specifically, to its ability to dissipate combustion heat from its firing end to the cylinder head and cooling medium.

A spark plug must maintain an even flow of heat from its firing end to avoid becoming a source of ore-ignition. Yet it also must operate hot enough to burn off conductive deposits that can short-circuit the high voltage and result in misfire.

For any specific application, it is the range of temperatures from low speed and low load to high speed and heavy load that determines the heat range requirement of a spark plug. From a design standpoint, the range of operating temperatures is largely determined by the length of the insulator nose. The longer the insulator nose, the hotter the spark plug. (Figure 6)

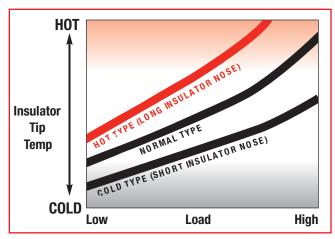
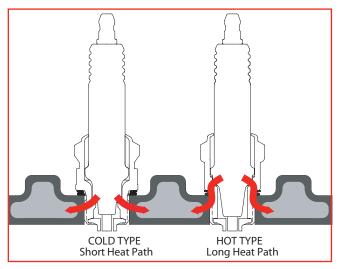


FIGURE 6

Thermocouple plugs designed by Champion are used to monitor firing tip temperatures. For best service at all load conditions, the optimum range of temperatures a plug should operate within is between 700°F and 1200°F (400°C to 650°C). The final selection of a plug for an engine is made on this basis.



Usually each size and design of a spark plug is manufactured in various heat ranges as illustrated. They vary from a "colder" type, which operates on the lower end of the temperature scale, to a "hotter" type, which operates on the higher end of the same scale in the same engine under identical conditions.

Spark plugs with short insulator firing tips are called "cold" designs because they dissipate heat rapidly. They vary from a "colder" type, which operates on the higher end of the temperature scale, to a "hotter" type, which operates on the higher end of the same scale in the same engine under identical conditions. (figure 7)

It is the temperature at which the plug operates that determines whether it is a hot or cold type, and not necessarily the design.

TYPES OF GROUND ELECTRODE

There are several ground electrode configurations. Those that project furthest from the spark plug into the combustion chamber will have the longest heat transfer path. Four-prong ground electrodes run colder than J-gap ground electrodes due to the shorter heat transfer path. However ground electrode projection may be beneficial for certain applications. (Figure 8)

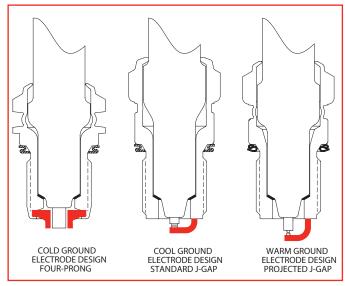


FIGURE 8

COPPER CORED ELECTRODES

The use of copper cored electrodes improves heat transfer, resulting in longer gap life. Copper is used in most center electrodes and in J-gap ground electrodes.

SEAT GASKET TEMPERATURE

Seat gasket thermocouple spark plugs can be used as an indicator of heat transfer out of the spark plug. Spark plug seat gaskets are intended to run no hotter than 400°F. If a seat gasket thermocouple reads above this, spark plugs and engine performance may be adversely affected.





Effect of Fuel on Spark Plug Selection



While most engines are designed for a specific fuel and placed into service with specifications tailored to that fuel, some operators are making conversion to different fuels or multi-fuel operation.

Spark plug selection of heat range and gap spacing should follow manufacturers' guidelines. When converting to alternative fuels see the spark plug selection chart. (figure 9)

| FUEL TYPE | APPROX. OPTIMUM ENGINE COMP. RATIO O | AVERAGE CTANE RES. NO. | | | | GNITION AGE REQUIRED |
|-----------------------|--------------------------------------|---------------------------|----------|----------|---------|-------------------------|
| Natural Gas (methane) | 14:1 (plus) | 115-120 | DECREASE | COLD | CLOSE | HIGH |
| LP-Gas | 9:1 - 12:1 | 95-105 | ^ | ^ | | ^ |
| Gasoline | 8:1 - 11:1 | 85-100 | | | | |
| Kerosene | 5:1 - 7:1 | 35-50 | | | | |
| Distillate | 4:1 | 25-30 | INCREASE | нот | OPEN | LOW |

FIGURE 9

Low energy fuels often contain contaminants which can decrease spark plug life due to deposit build-up. (Figure 10)

| LOW ENERGY | FUEL SOURCE | TYPICAL COMPOSITION |
|--------------|---|---|
| Landfill gas | Natural anaerobic decomposition of organic landfill waste. | 55% methane and 45% $\rm CO_2$ with small amounts of oxygen and nitrogen, and contaminants such as sulfur compounds, halides, acids and solids. |
| Digester gas | Natural anaerobic decomposition of organic waste from sewage, animal waste or waste from vegetable and alcohol mills. | 65% methane and 35% $\rm CO_2$ with small amounts of oxygen and nitrogen, and contaminants as above. |
| Blended fuel | Landfill or digester gas enriched with natural gas. | Depends on fuel concentration. |

FIGURE 10

Shielded Extensions, Non-Shielded Extensions, Gaskets and Terminal Nut



Spark Plug Shielded Extensions



SE-10D

11503

10"

| <u>TEFLON IGNITION RODS</u> | | | | |
|-----------------------------|--------|----------|--|--|
| LENGTH | PART# | REORDER# | | |
| 4" | SE-4T | 11497 | | |
| 6" | SE-6T | 11504 | | |
| 8" | SE-8T | 11505 | | |
| 10" | SE-10T | 11506 | | |
| | | | | |





| GASKETS | | | |
|---------|-------|----------|--|
| LENGTH | PART# | REORDER# | |
| 14MM | N678 | 91954 | |
| 18MM | A678 | 91591 | |
| 7/8MM | A478 | 94349 | |

Spark Plug Non-Shielded Extensions

| <u>TEFLON</u> | TEFLON DIELECTRIC SHIELDS | | | | |
|------------------|---------------------------|----------|--|--|--|
| LENGTH | PART# | REORDER# | | | |
| 3" | DS3 | 13601 | | | |
| 4" | DS4 | 13602 | | | |
| 5" | DS5 | 13604 | | | |
| 6" | DS6 | 13607 | | | |
| 8" | DS8 | 13609 | | | |
| _10" | DS10 | 13610 | | | |
| _12" | DS12 | 13611 | | | |
| _14" | DS14 | 13612 | | | |
| 16" | DS16 | 13613 | | | |
| 18" | DS18 | 13614 | | | |
| 20" | DS20 | 13615 | | | |
| _24" | DS24 | 13617 | | | |
| #50kV RESISTANCE | | | | | |

| LENGTH | PART# | REORDER# | | |
|--------|-----------------------|----------|--|--|
| 3" | SCE3 | 13587 | | |
| 4" | SCE4 | 13588 | | |
| 5" | SCE5 | 13589 | | |
| 6" | SCE6 | 13590 | | |
| 8" | SCE8 | 13591 | | |
| 10" | SCE10 | 13592 | | |
| 12" | SCE12 | 13594 | | |
| 14" | SCE14 | 13595 | | |
| 16" | SCE16 | 13596 | | |
| 18" | SCE18 | 13597 | | |
| 20" | SCE20 | 13599 | | |
| 24" | SCE 24 | 13600 | | |
| #8-32 | #8-32 INTERNAL THREAD | | | |

ALUMINUM EXTENSION RODS





Integral Coil Features





Integral coils must be installed at a maximum of 5 lb-ft after the spark plug has been installed to follow coil manufacturer instructions for tightening. Over-torque can cause damage to coil and/or plug, resulting in possible engine damage. The "T" type and "G" type spark plugs



"T" TYPE SPARK PLUGS

A "T" type spark plug is shown in Figure 11. Typical plugs are the RTM82WPCC, RTM77N, RTM78N, RTB78N, RTB80N, RTL85G, RTN79G, TJ83, RTW80N and RTW83F. These coils require that the shell turnover has a 13/16" thread to accommodate the female threaded coil.

FIGURE 11

described below are designed to be used in conjunction with ignition systems utilizing an integral (transformer) coil. These plugs along with the use of integral coils have been approved by Canadian Standards Association for Class1, Group D, Division 2 hazardous-location service.

"G" TYPE SPARK PLUG

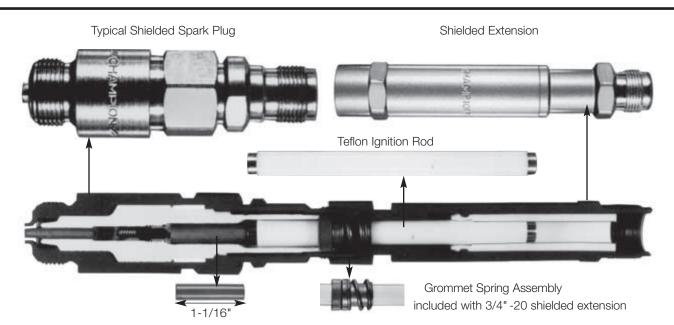
A "G" type spark plug is shown in Figure 12. Typical plugs are the RGC80N, RGC80F and RGC77N in the 7/8" line and the RGM86N in the 18mm line. These utilize a 1" upper female threaded shell.





FIGURE 12

Shielded Extension Features and Installation



NOTE: This extension assembly can only be used with spark plug with a 1" well depth such as RHL79G, RHL89G, RHN79G, RHM77N, RHM83N, RHM85G, RHW79N, RHB81N. The following have a 2" well and require a brass rod adapter: RHM78PP, RHM78WPCC, RHW77N, RHW78N, RHW80N, HW83F.

- Install spark plug and tighten to recommended torque.
- Take center rod and install spring assembly and rubber grommet with at least 1-1/2" of center rod extending from bottom.
- Insert center rod with spring assembly and grommet into shielded spark plug.
- Install shielded extension over the center rod pushing the grommet and spring assembly down to the shell. This will ensure the center rod is in contact with the terminal of the spark plug.
- Tighten shielded extension to a maximum of 5 lb-ft.



An effective way to diagnose an engine's operating conditions is to examine the used spark plugs for abnormal conditions. If all systems of a given cylinder are in proper working condition, the recommended spark plug will take on deposit, gap wear and insulator coloring characteristics which must be considered normal. By indexing each plug to its respective cylinder and location during removal, the technician can later scrutinize the

plug under magnification to determine the possibility of engine abnormalities.

This procedure can be very useful if conducted as part of regular maintenance inspections. The following series of photographs and explanations may serve as a guide to spark plug and engine analysis; conditions will vary from engine to engine.

NORMAL

Appearance. Slight even wear on electrodes, very light deposits, a coloring of brown or grayish tan. Very clean, deposit-free firing ends are common on LP and natural gas applications.

Indication. Correct spark plug for application; cylinder from which removed is "healthy."

WORN OUT

Appearance. Very pronounced wear on electrodes, widened gap space.

Indication. Worn condition creates high voltage requirement and stresses the ignition system. Replace with equivalent heat range, perform routine ignition maintenance.

BRIGED GAP

Appearance. A deposit lodged between the electrodes which "short-circuits" the ignition voltage.

Indication. Flaking off of combustion chamber deposits. May happen after long periods of constant speed and load operation followed by cyclic accelerations.

OIL ASH DEPOSITS

Appearance. Light colored (generally grayish) crusty build-up on spark plug firing end. May vary in density from very soft and flaky to extremely hard and rock-like.

Indication. Residual deposits from oil entering the combustion chamber in small amounts and being burned. These deposits, depending on oil additives, may be non-conductive and harmless. However, sufficient quantities of these deposits may build to mask the entire firing end and affect initiation of combustion. Should the deposits be conductive, the potential is great for core nose tracking and misfire.

LANDFILL GAS DEPOSITS

Appearance. Light colored (generally white) crusty build-up on spark plug firing end. May vary in density from very soft and flaky to extremely hard and rock-like.

Indication. Residual deposit from an engine operated on gas from a landfill. This type of fuel is often referred to as "dirty" gas, thus the naturally occurring deposits. These deposits may be non-conductive and harmless, but sufficient quantities may build to mask the entire firing end and interfere with the initiation of combustion. Should the deposits be conductive, the potential is great for core nose tracking and misfire.

DETONATION

Appearance. Electrodes or insulator fractured/physically broken as if by mechanical means.

Indication. Engine operated under abnormal combustion-detonation (uncontrolled burning or exploding of the fuel/air charge). Generally due to excessive temperature from over-heating, improper fuel/air ratios, over-advanced timing, cooling system blockages, insufficient engine tolerances, or improper balance of fuel mixture and timing.

PRE-IGNITION

Appearance. Overheated spark plug with electrodes and/or insulator melted.

Indication. Engine operated under abnormal combustion-pre-ignition (ignition prior to timed spark). Pre-ignition generally results from excessive temperatures created by "hot spots," possibly carbon, sharp valve edge, gasket protruding into the chamber, or improper heat range plug.

CORE NOSE TRACKING

Appearance. Ignition marks etched into the insulator core nose, or its deposits, that travel from the center electrode up the core nose to ground within the shell bore. These marks are often black in color.

Indication. Misfire may occur as the ignition spark has found an alternate path to ground as opposed to the desired path of arcing from center electrode to the ground electrode. Tracking can be caused by any of the following conditions: Conductive deposits on the insulator core nose, too wide a spark gap, too lean a fuel/air ratio, increased cylinder pressures at time of ignition.

CARBON FOULED

Appearance. Soft, black sooty deposits covering firing end.

Indication. Possible problem in the fuel delivery system – overly rich. Weak ignition system, flashover or secondary voltage, leak, or extremely low compression. More common to gasoline fueled auxiliary type engines.

TORCHED SEAT

Appearance. Cutting torch effect in the thread and seat area of the plug shell.

Indication. Plug was not seated properly, could not dissipate heat and allowed gases to blow by the threaded area.



Normal



Usure normale Normal



Worn Out



Usure totale Desgastada



Detonation



Détonation Detonación

Pre-ignition



Préallumage Encendido prematuro



Bridged Gap





Écartement obstrué No existe separación entre puntas







Core Nose Tracking



Traces de cheminement de l'isolant Formación de trayectorias en la nariz

Oil Ash Deposits



Dépôts résiduels d'huile Depósitos de cenizas aceitosas

Landfill Gas Deposits



Dépôts résiduels de gas d'enfouissement Depósitos de gas de vertedero

Carbon Fouled



Calaminage Cubiertas de carbón

Torched Seat



Siège brûlé Asiento quemado

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